Jeffrey

We Begin Numbers

1

We Begin Numbers

by

Elda L. Merton and Leo J. Brueckner

Art by
Helen and Bill Hamilton
Alice Joan Oeljeklaus
Roland V. Shutts

Detailed teaching procedures
are given in the
Teachers Edition.

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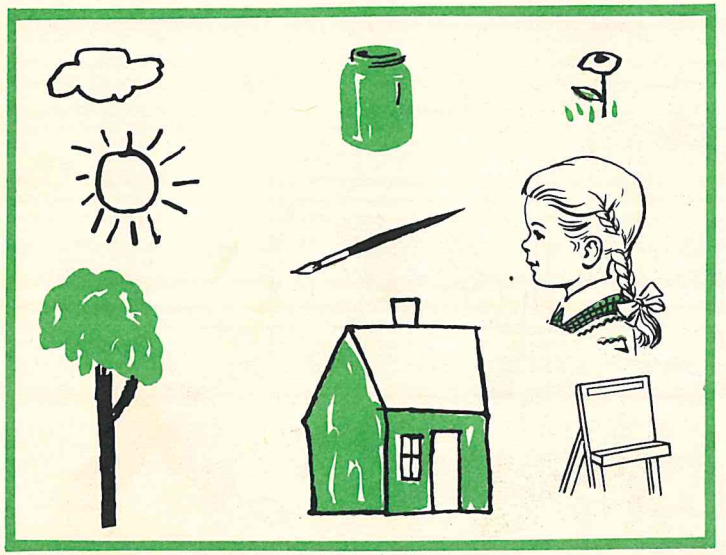

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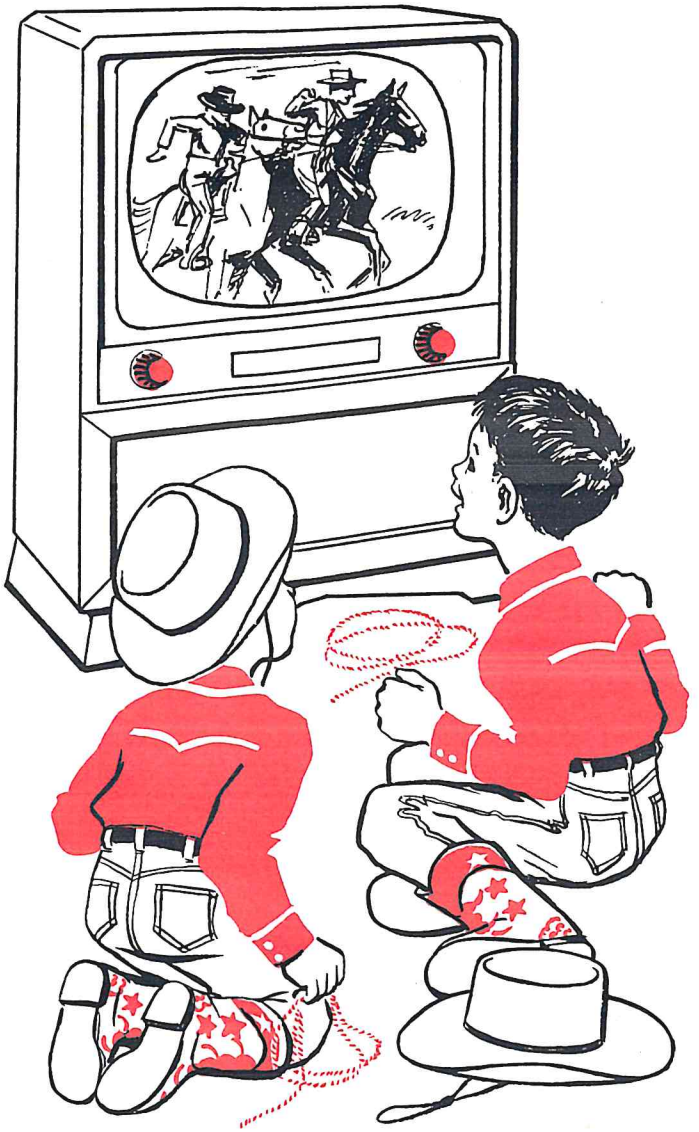

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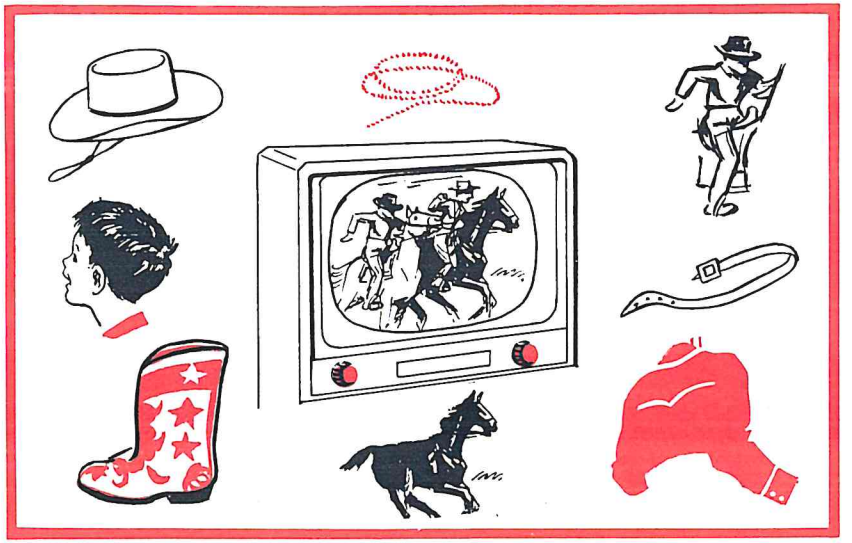

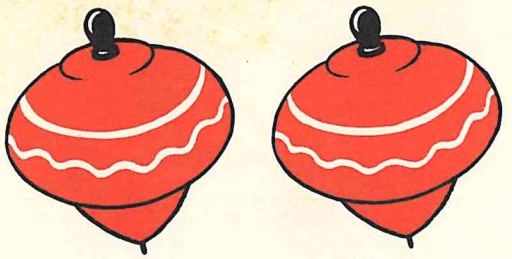

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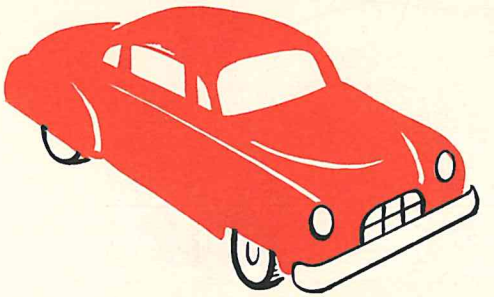

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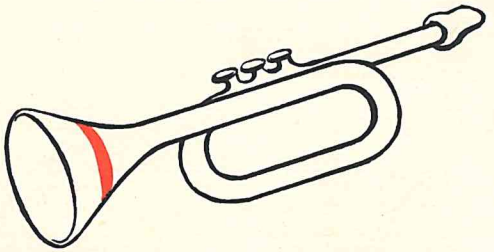

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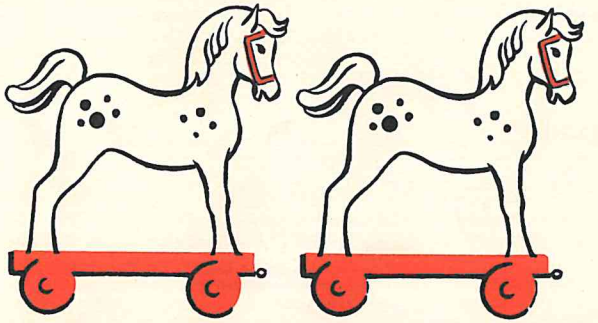

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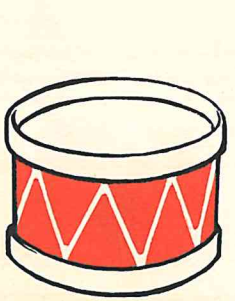

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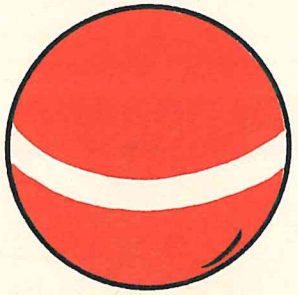

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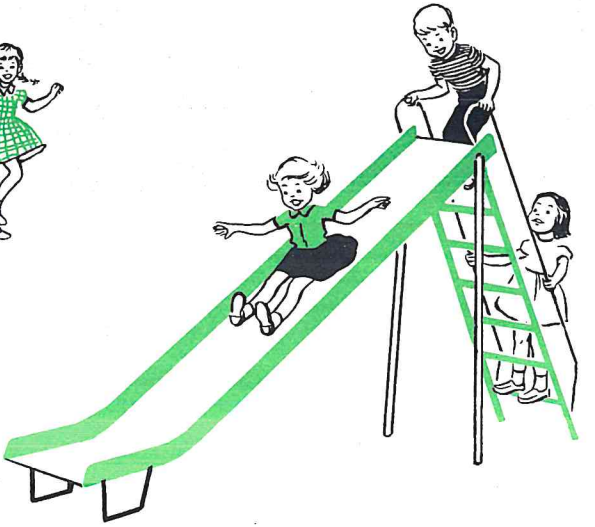

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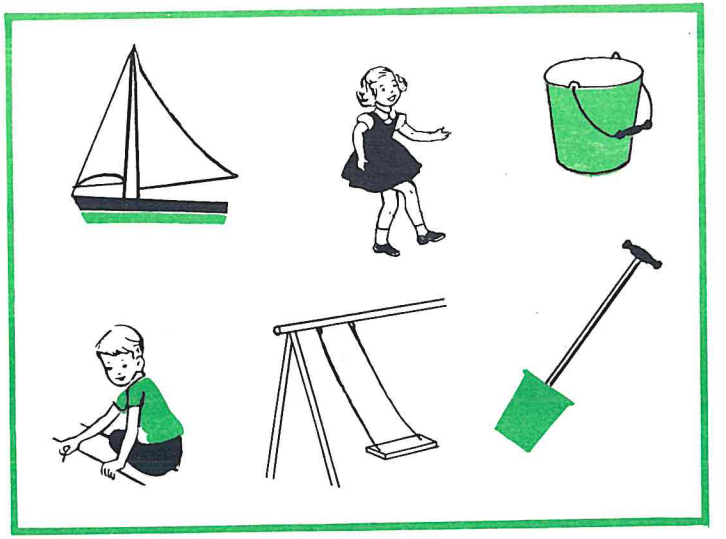

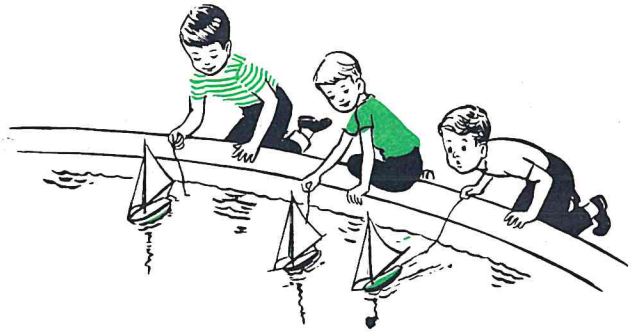

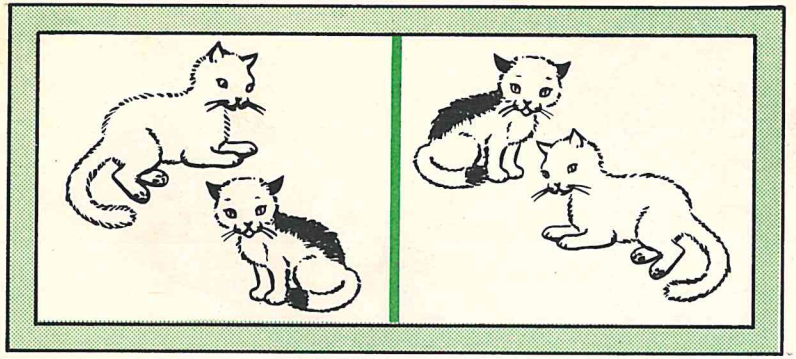

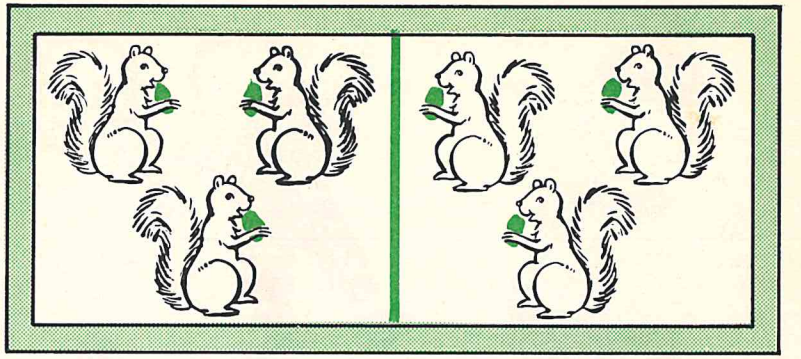

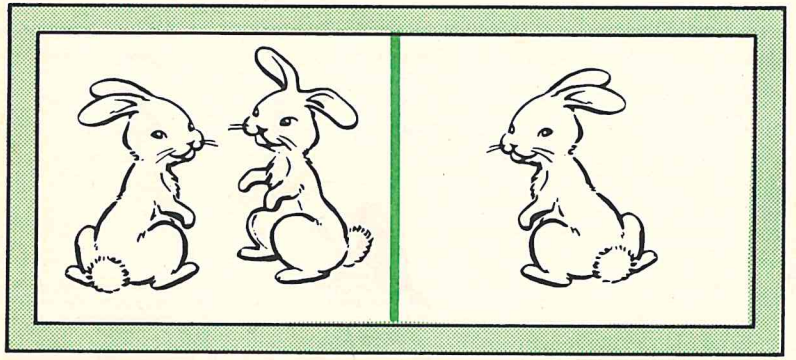

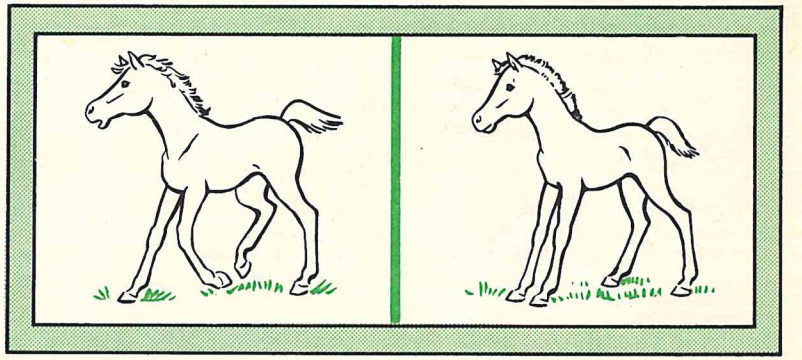

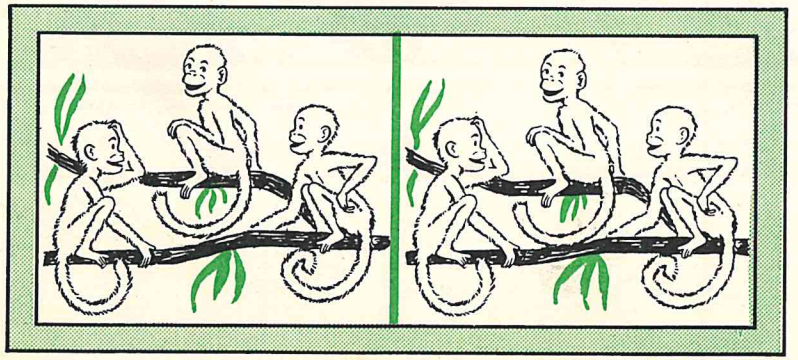

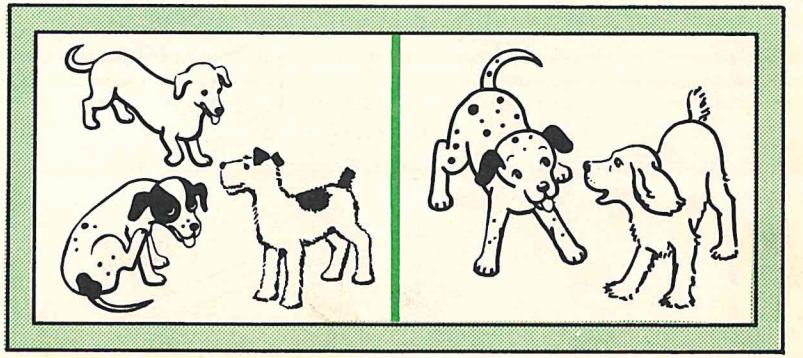

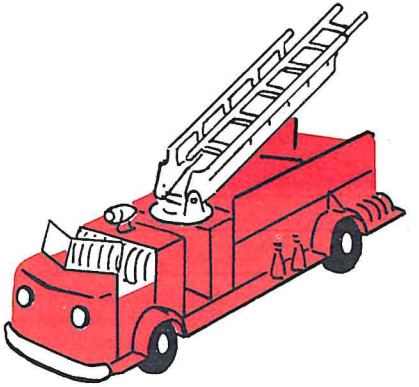

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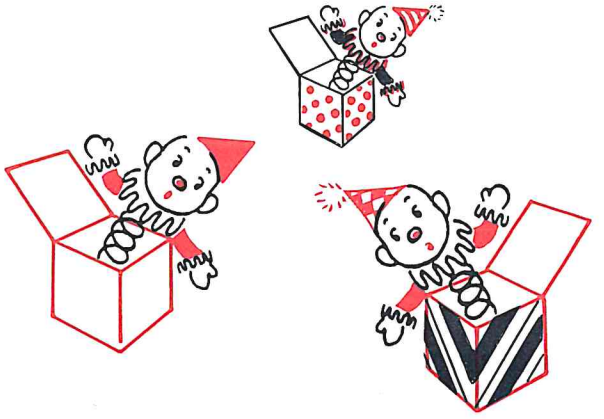

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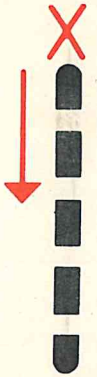

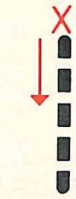

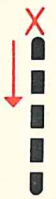

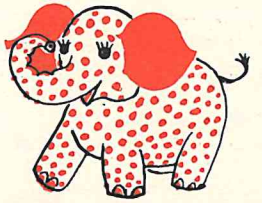

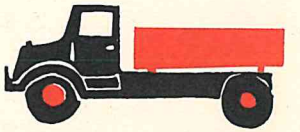

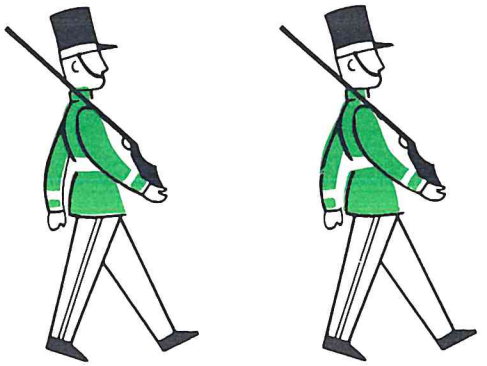

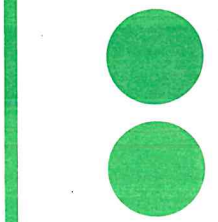

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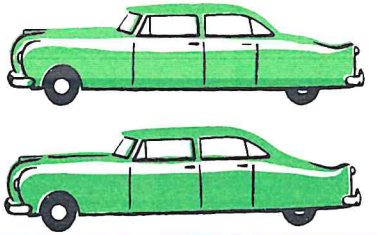

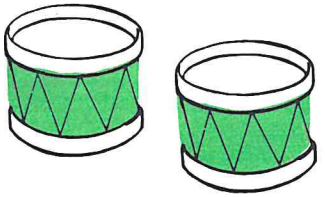

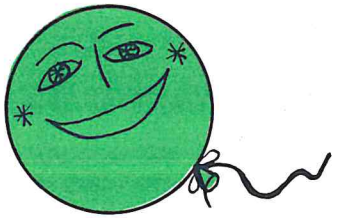

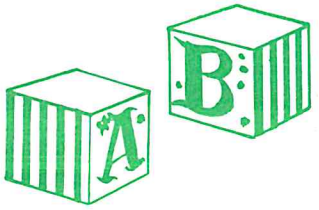

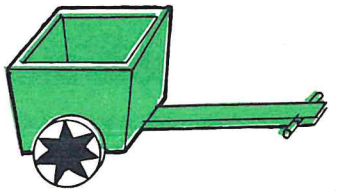

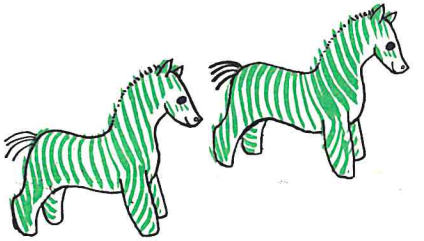

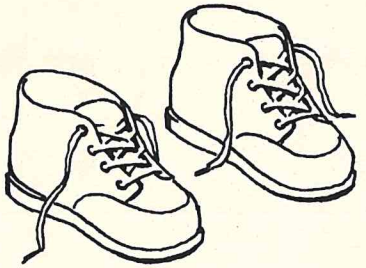

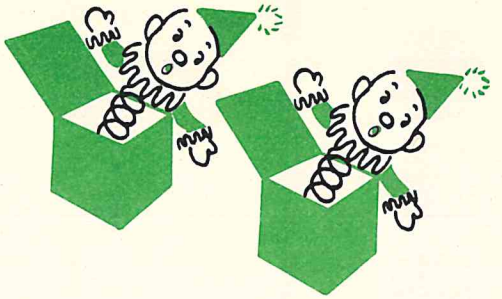

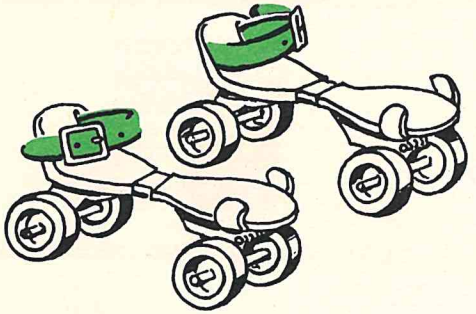

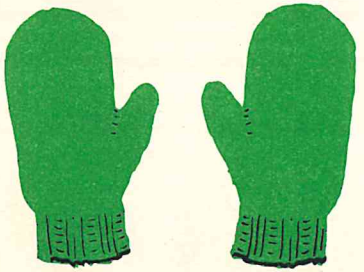

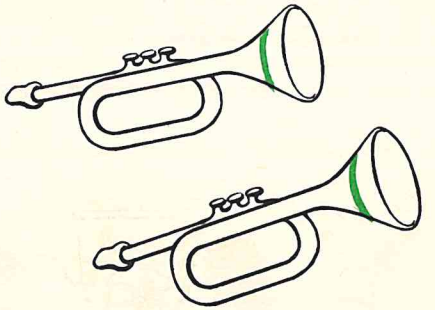

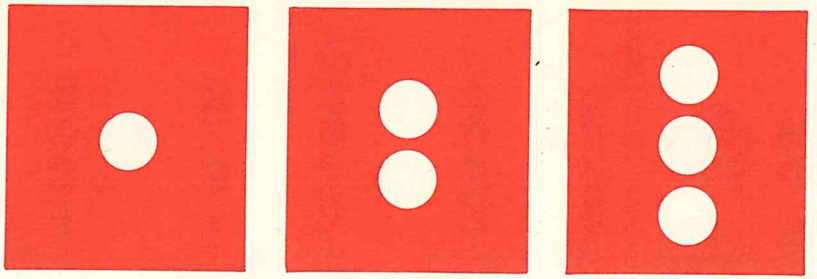

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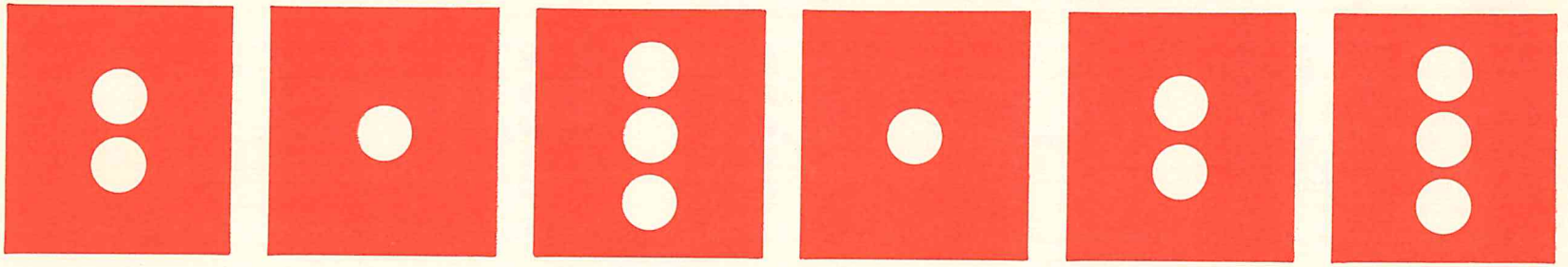

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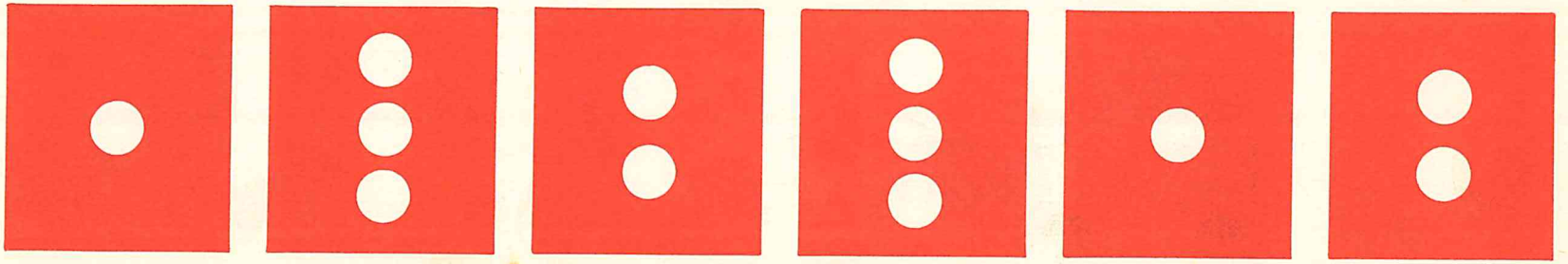

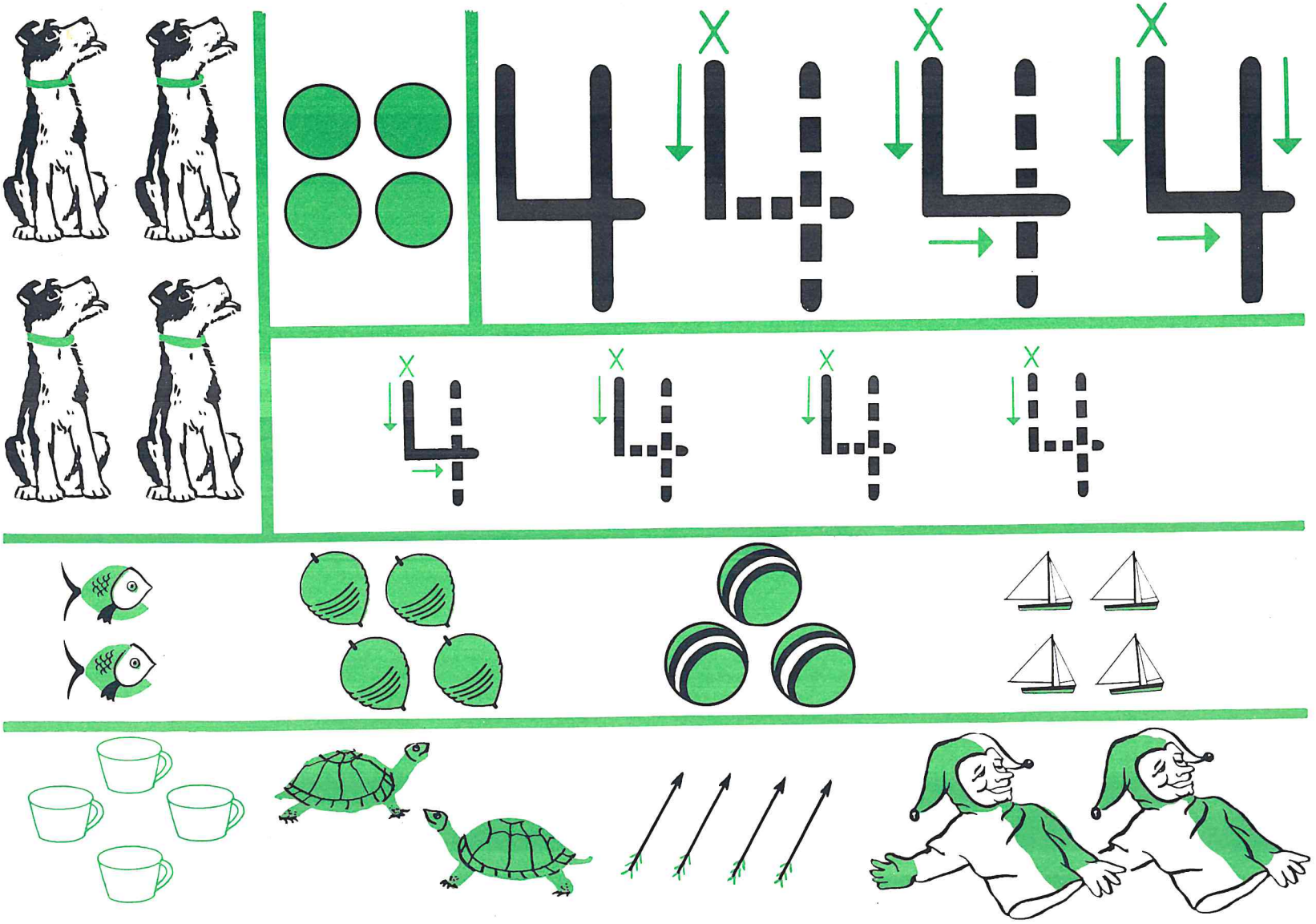

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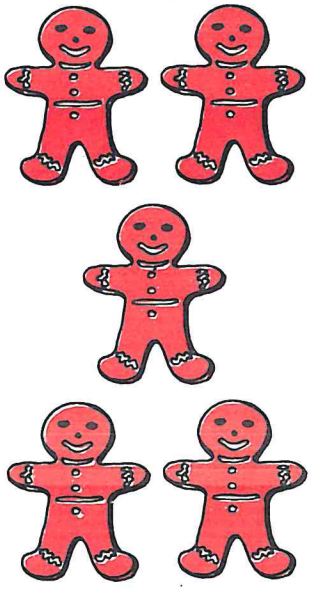

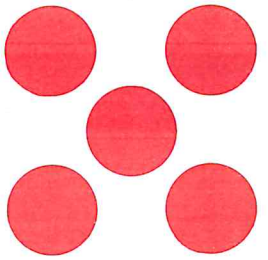

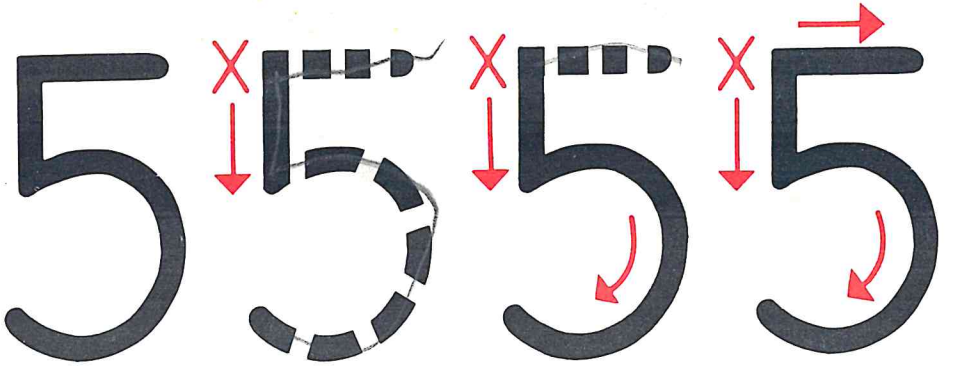

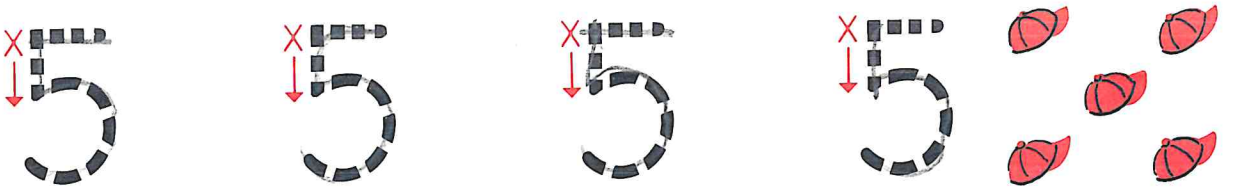

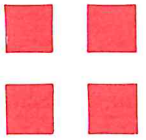

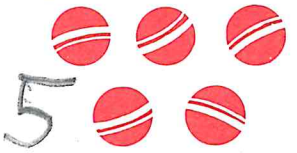

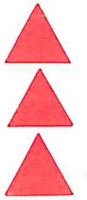

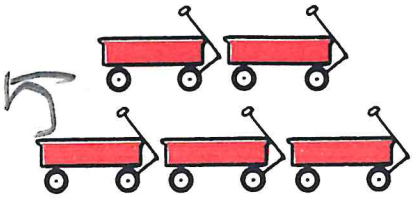

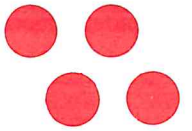

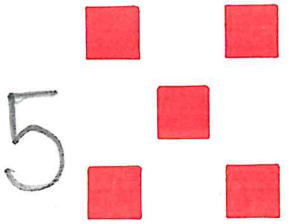

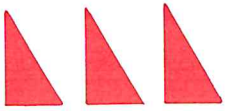

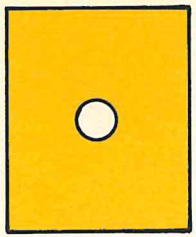
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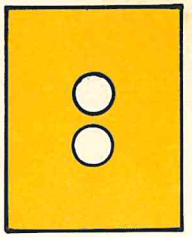
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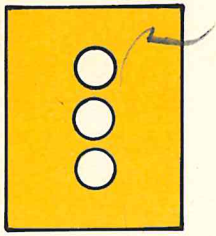
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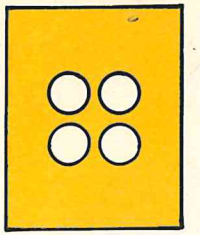
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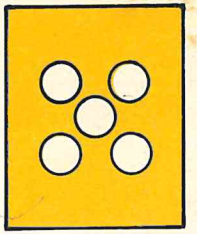
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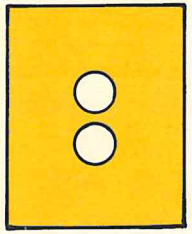
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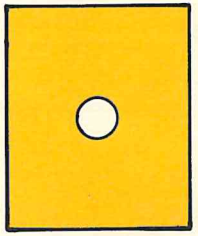
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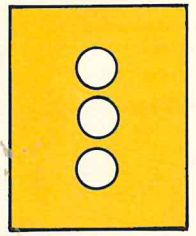
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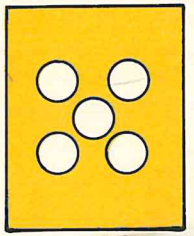
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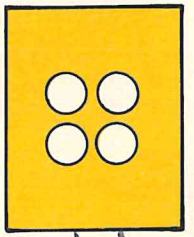
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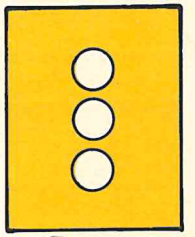
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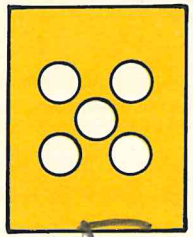
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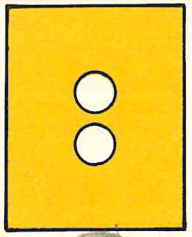
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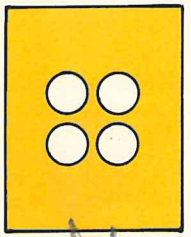
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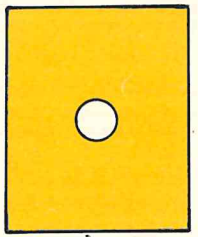
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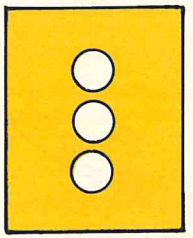
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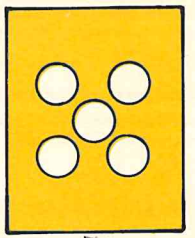
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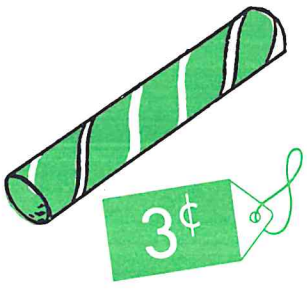
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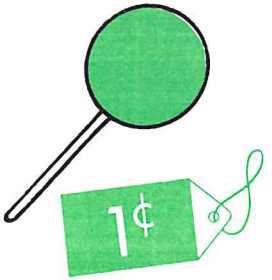
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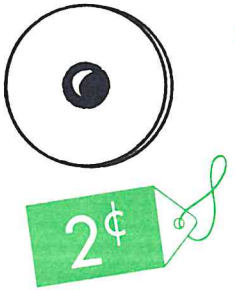
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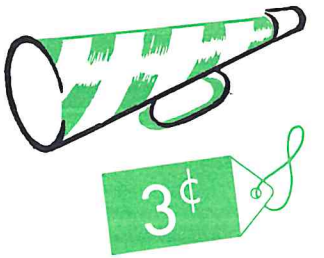
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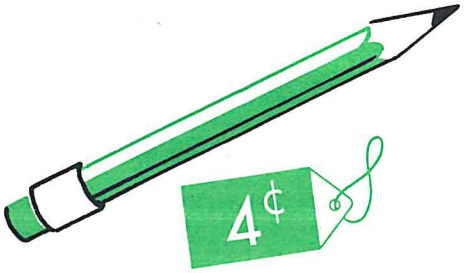
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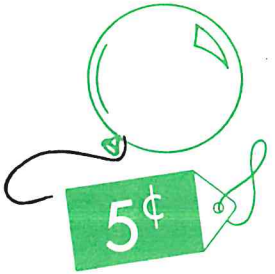
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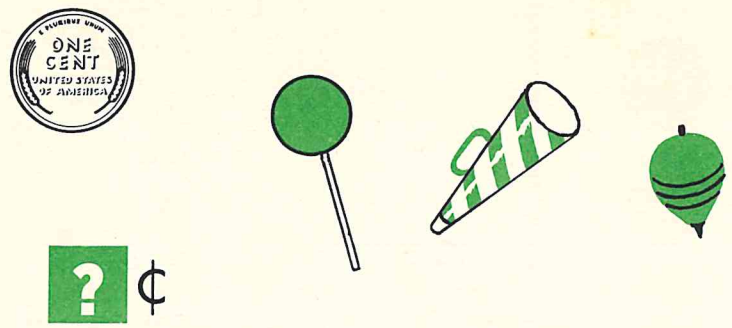
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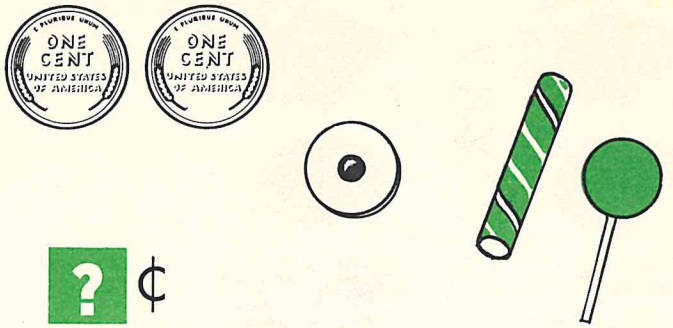
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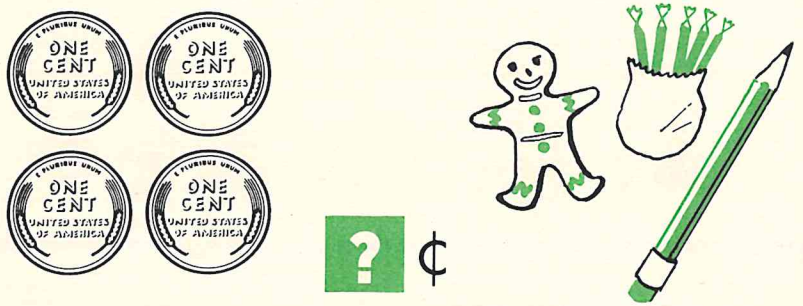
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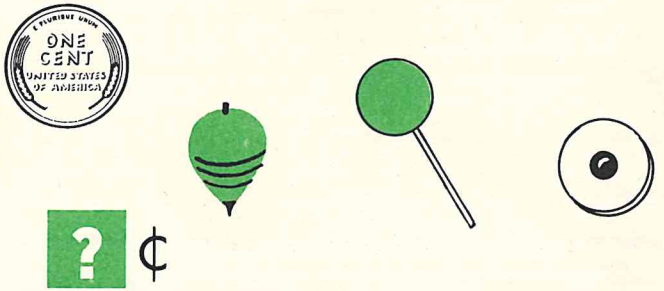
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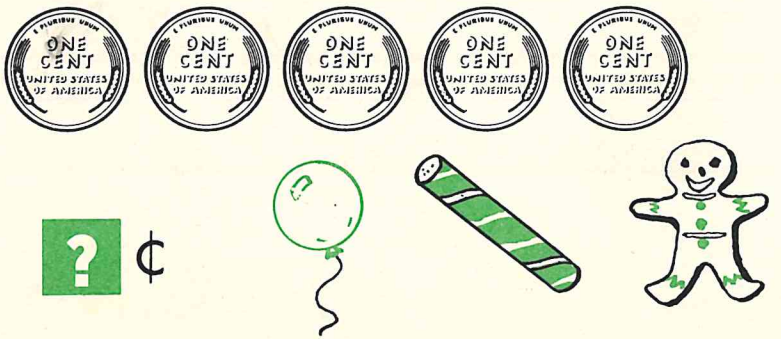
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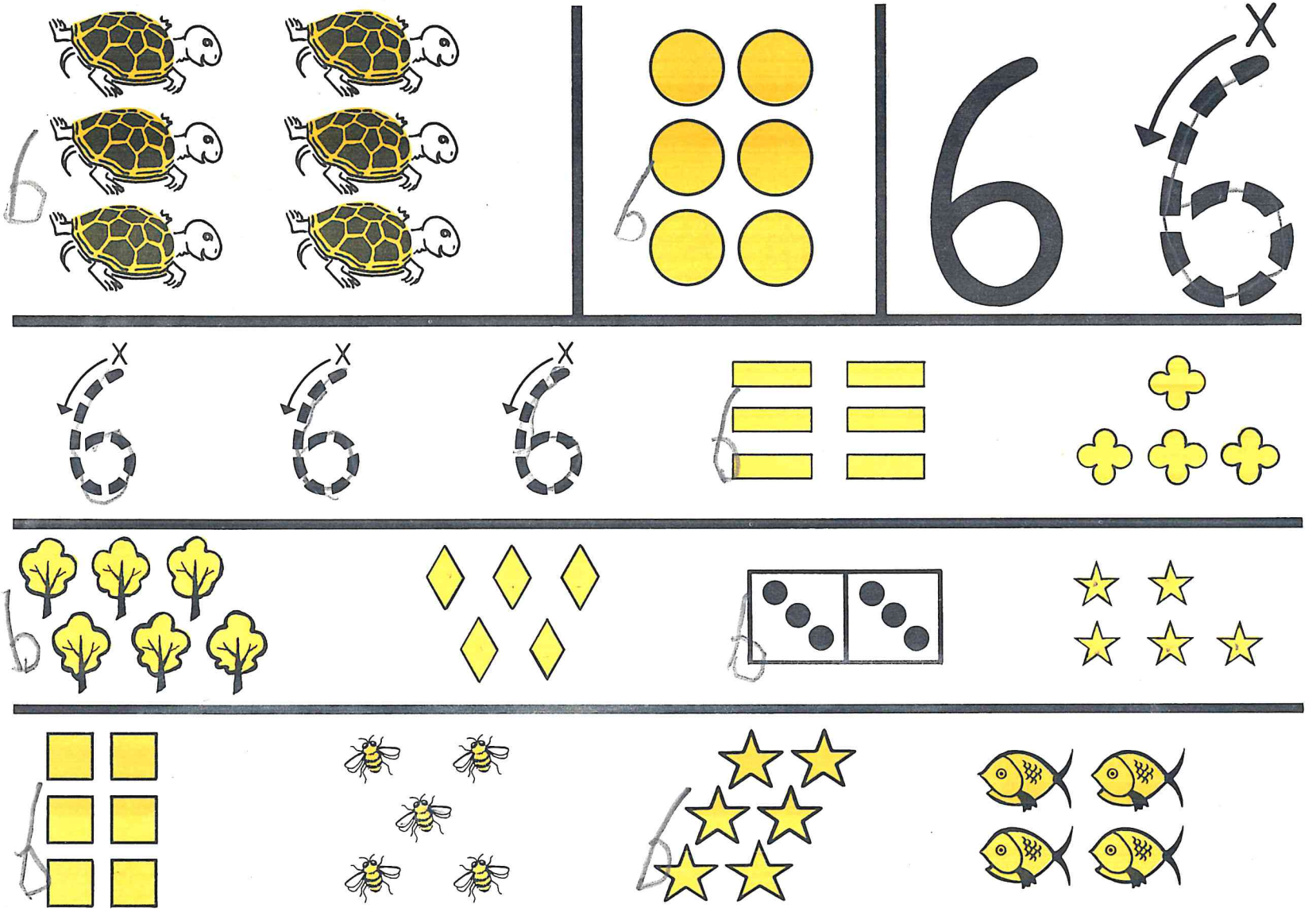

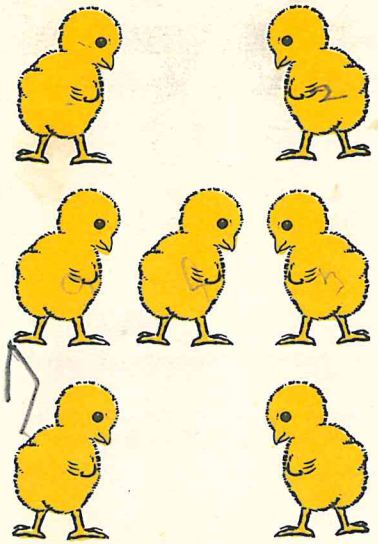

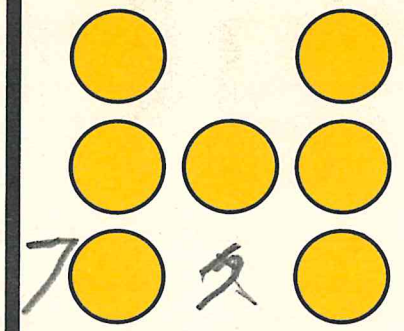

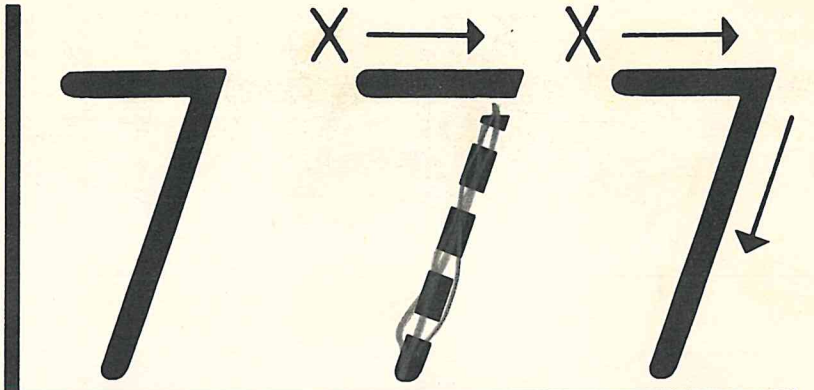

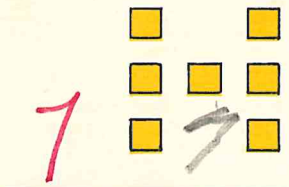

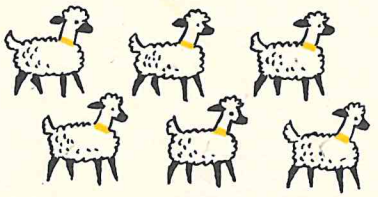

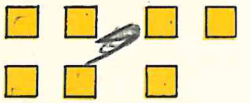

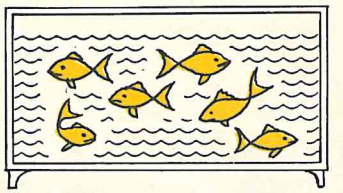

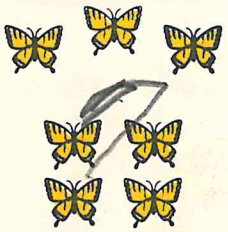

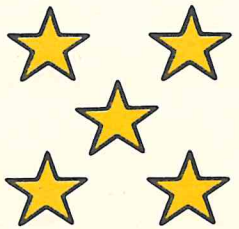

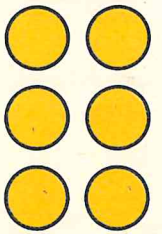

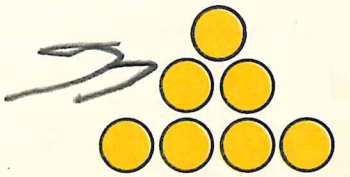

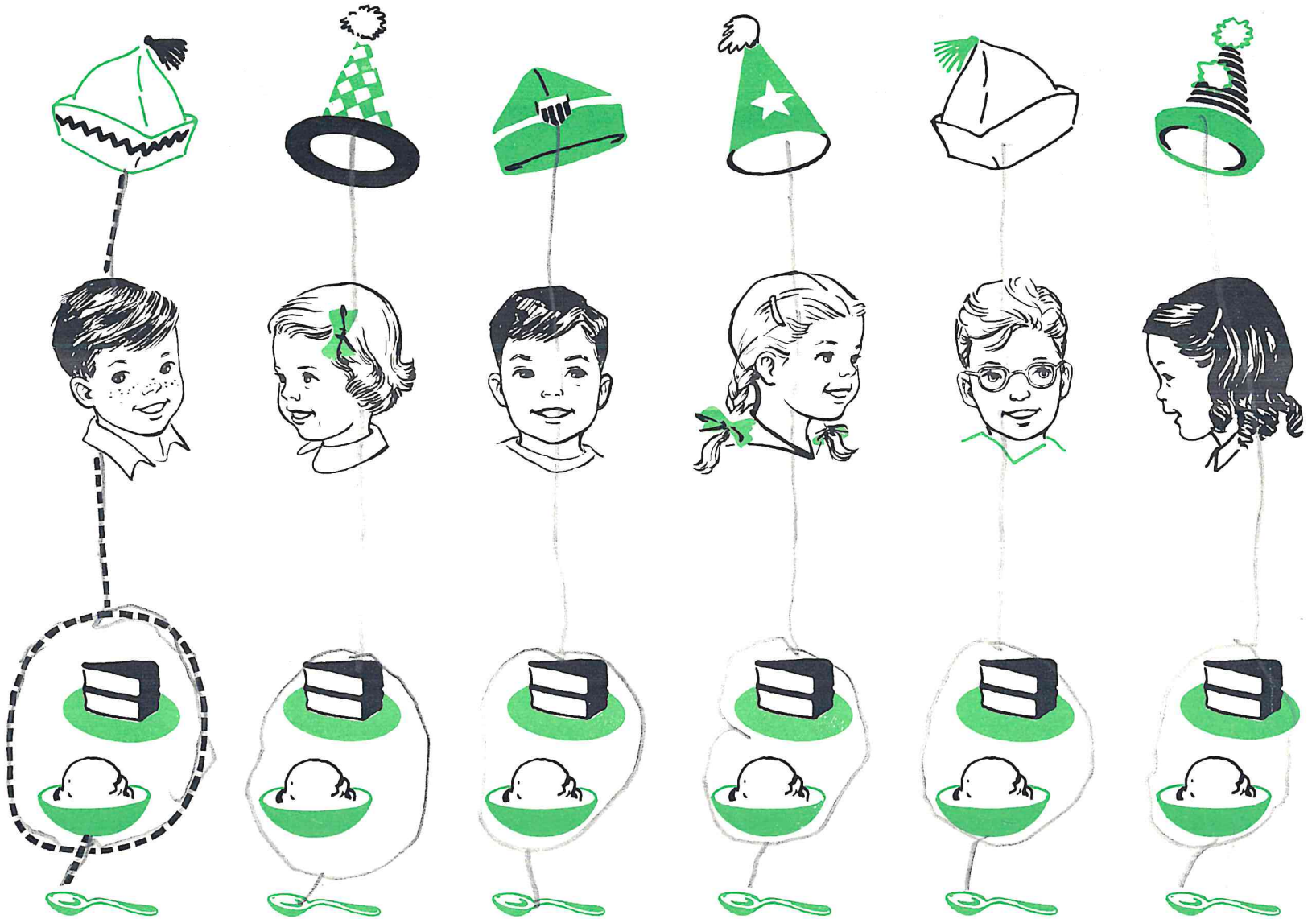

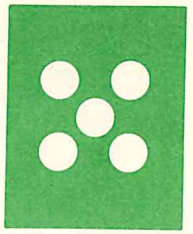

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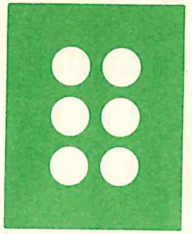

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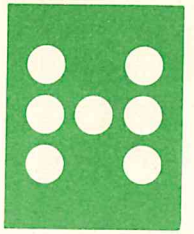

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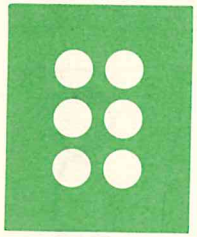

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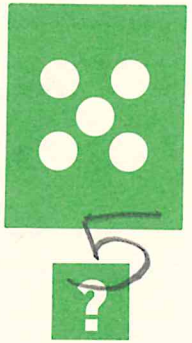

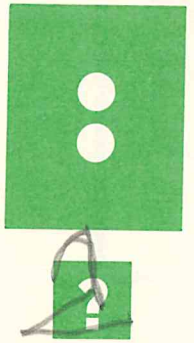

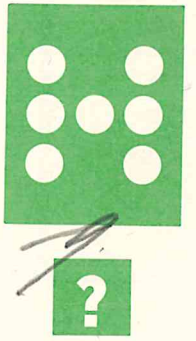

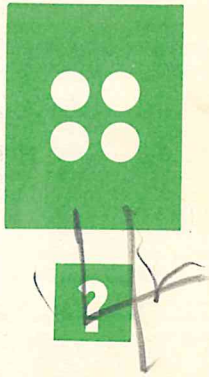

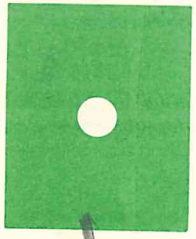

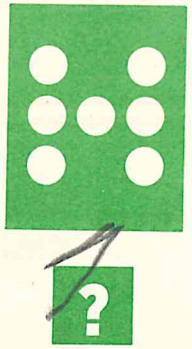

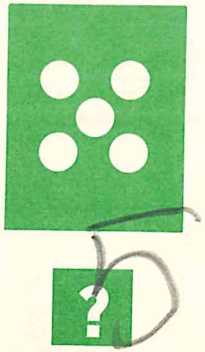

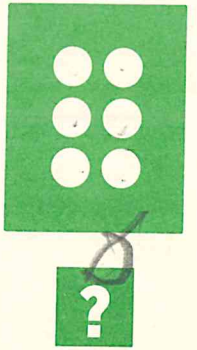

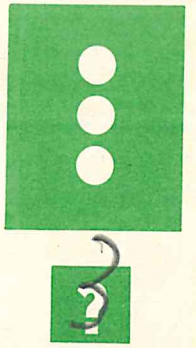

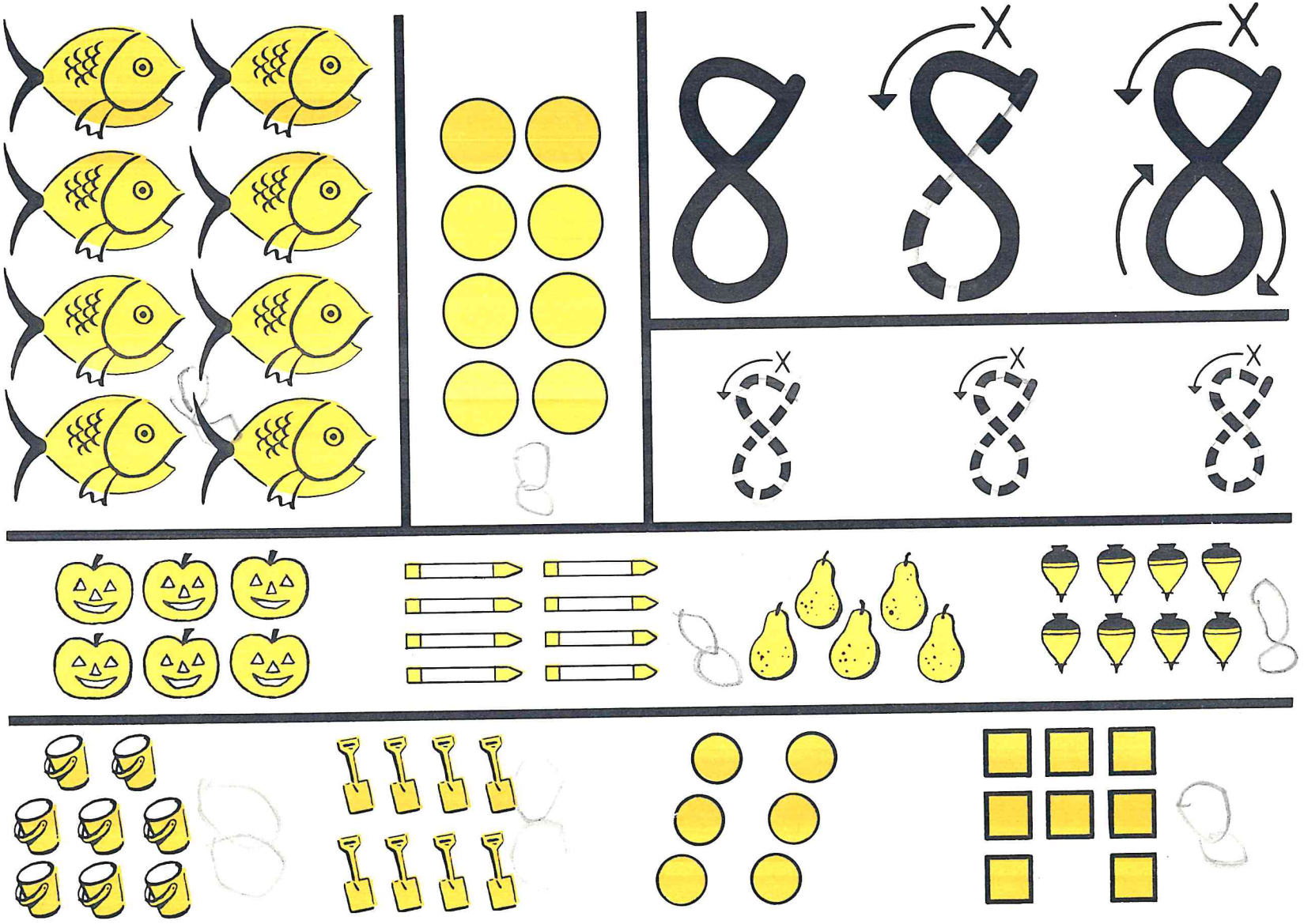

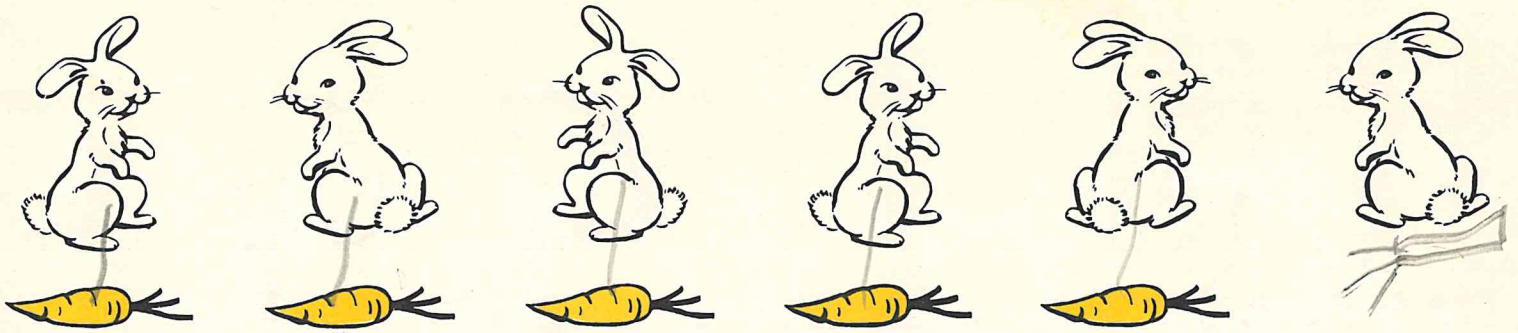

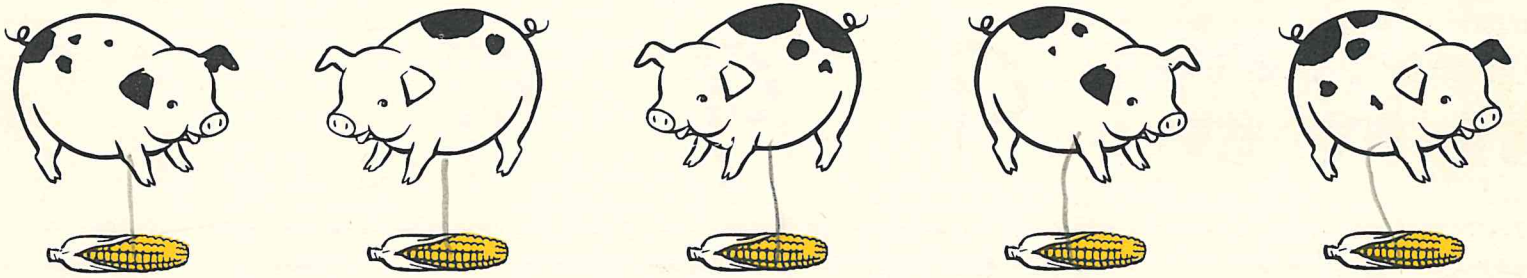

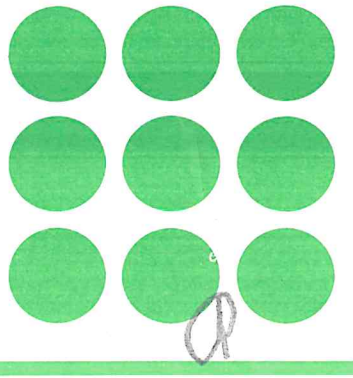

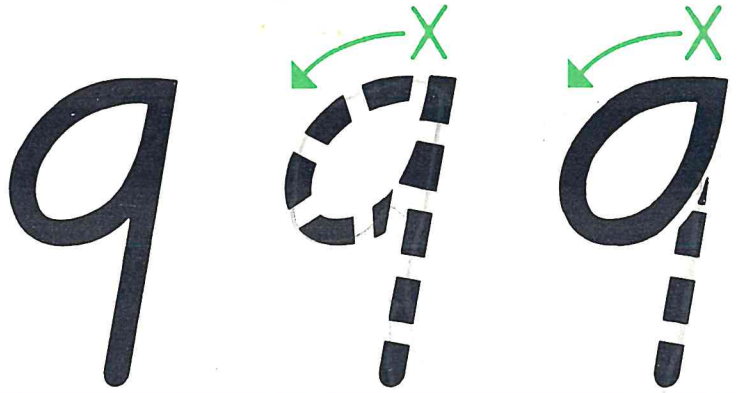

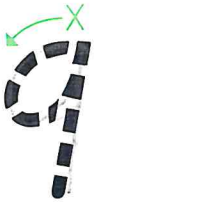

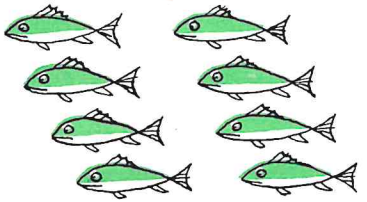

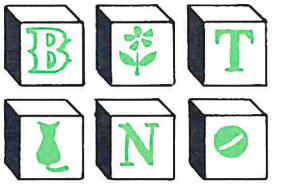

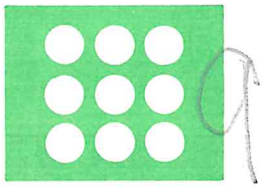

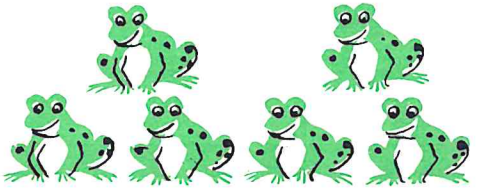

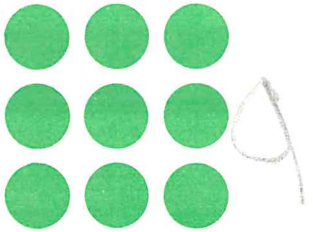

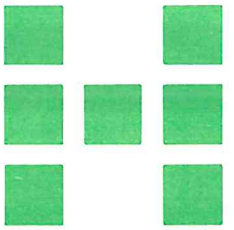

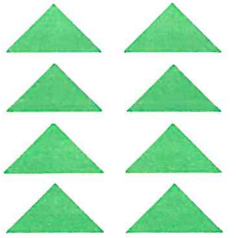

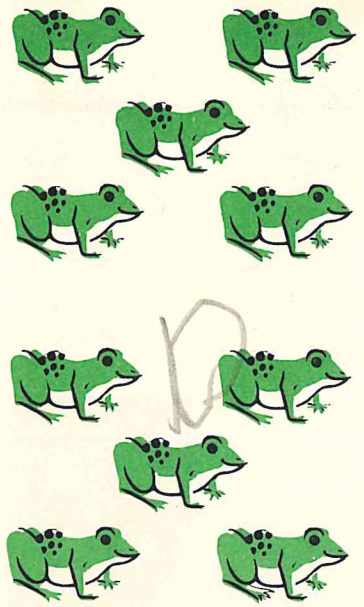

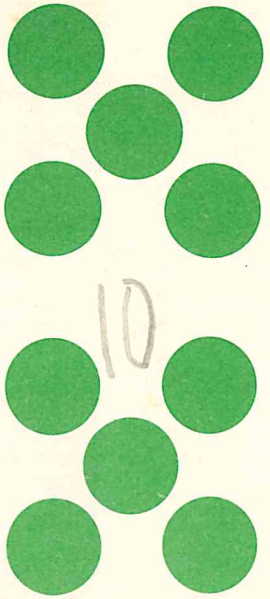

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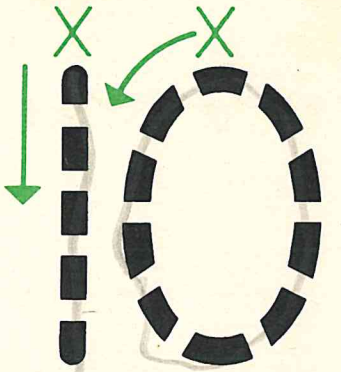

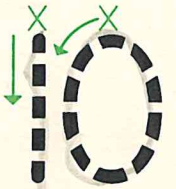

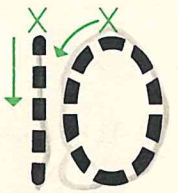

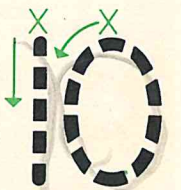

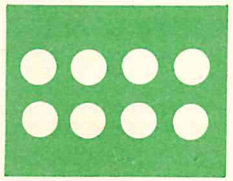

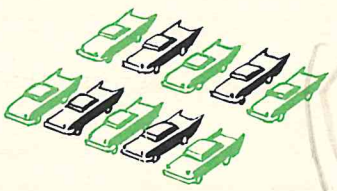

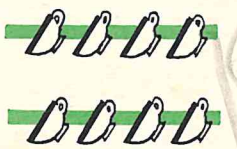

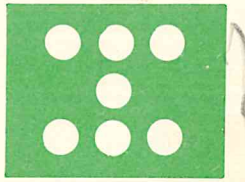

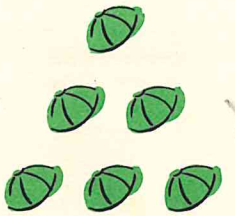

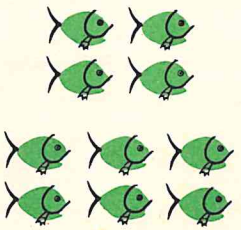

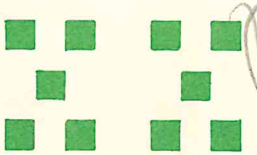

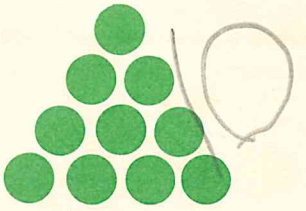

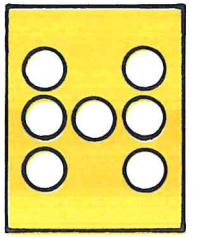

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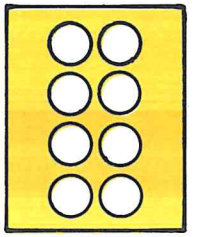

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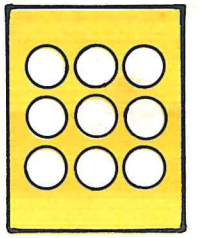

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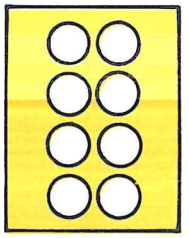

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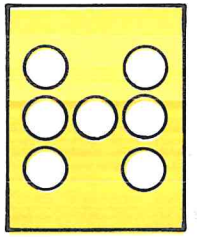

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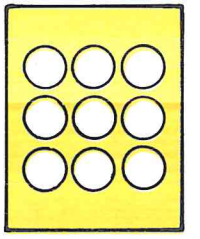

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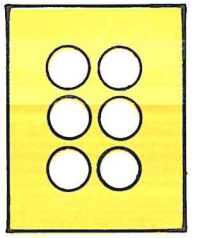

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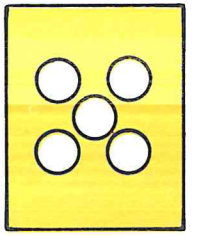

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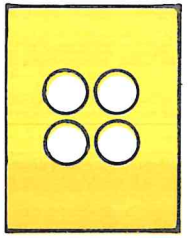

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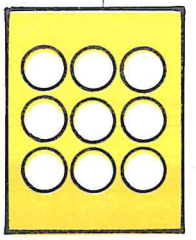

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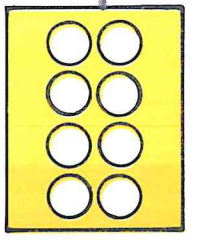

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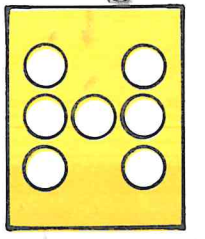

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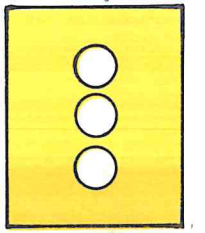

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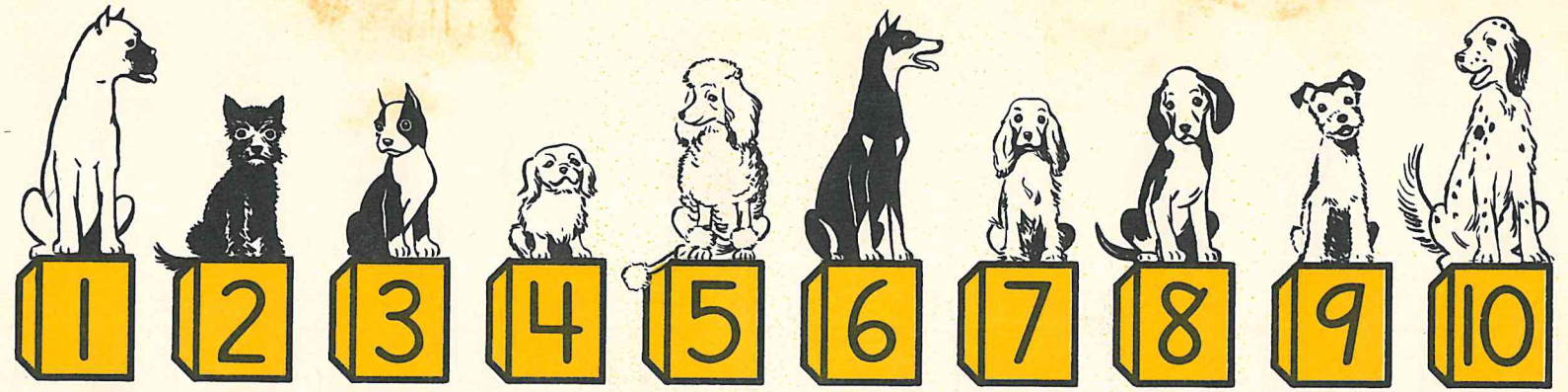

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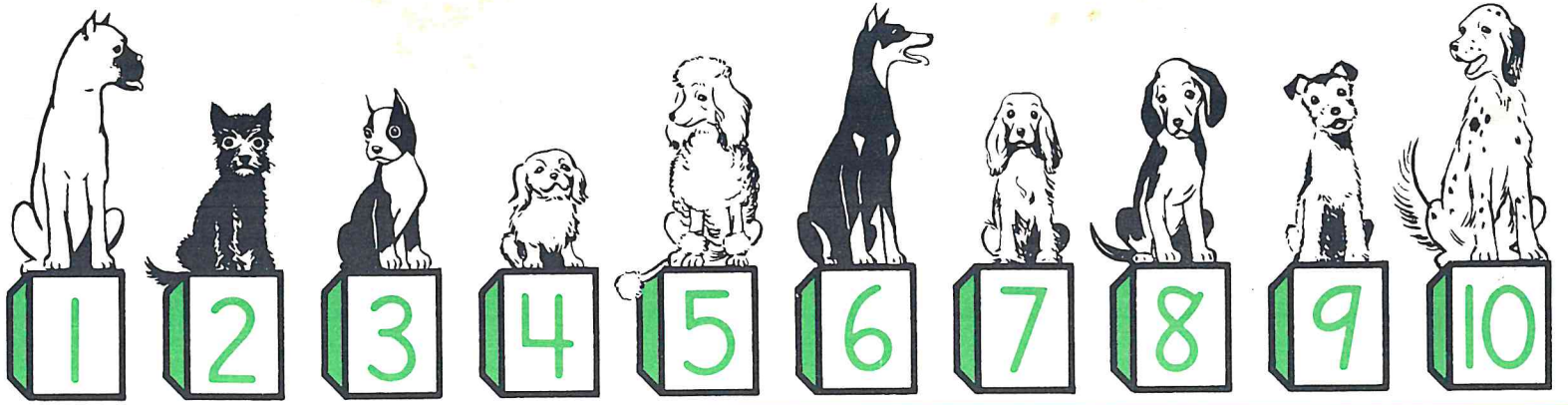

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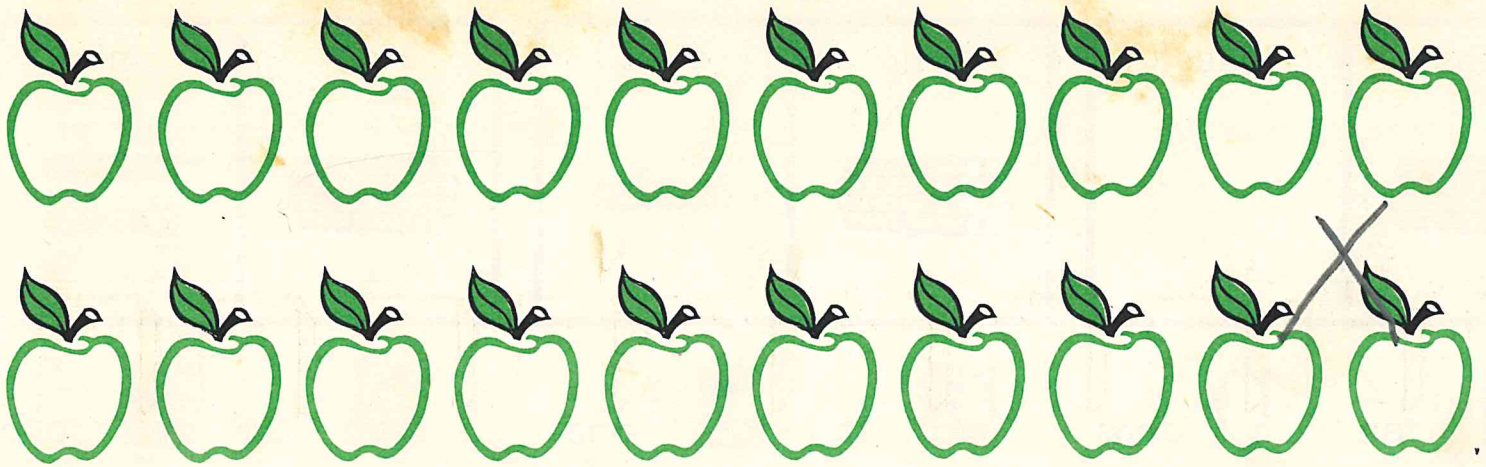

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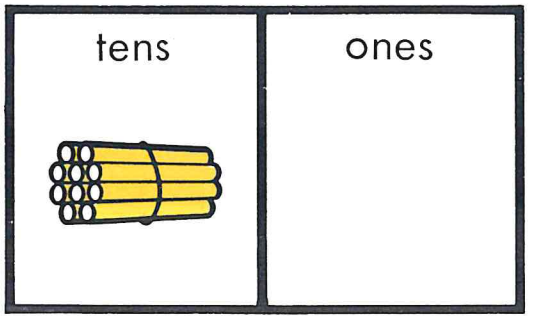

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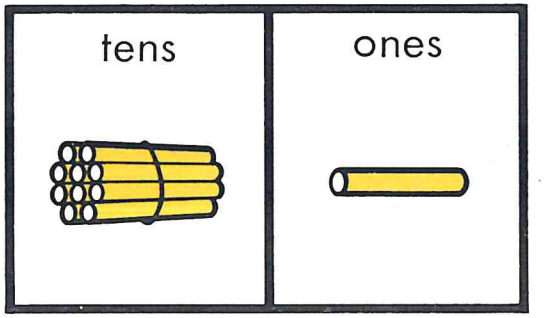

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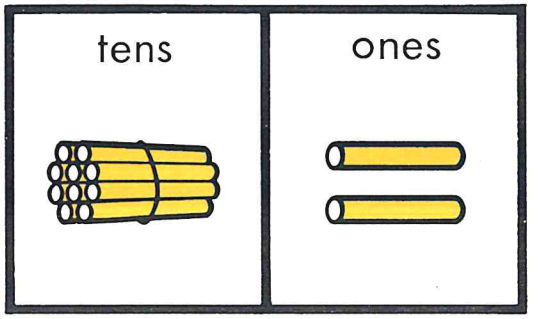

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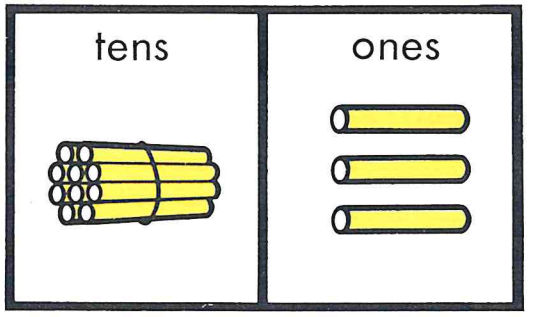

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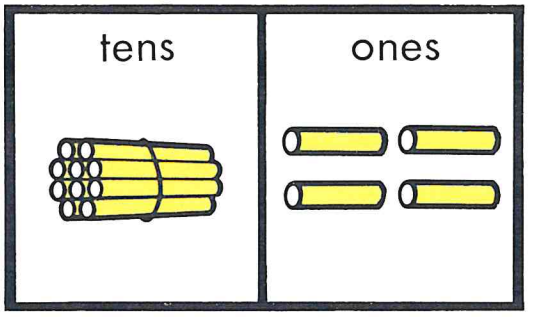

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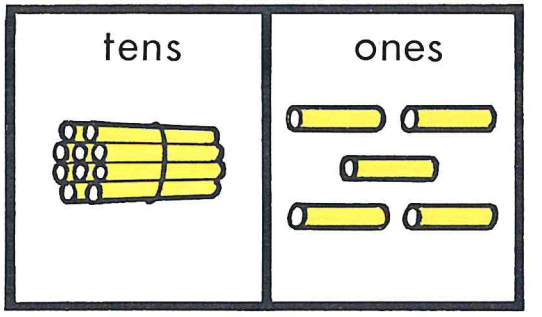

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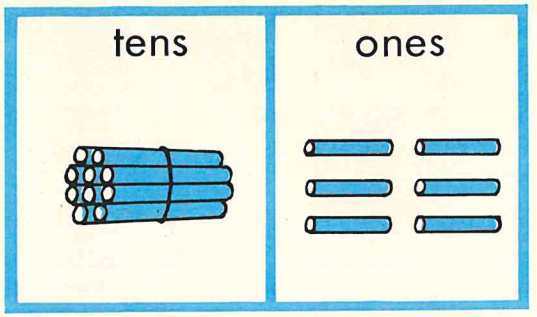

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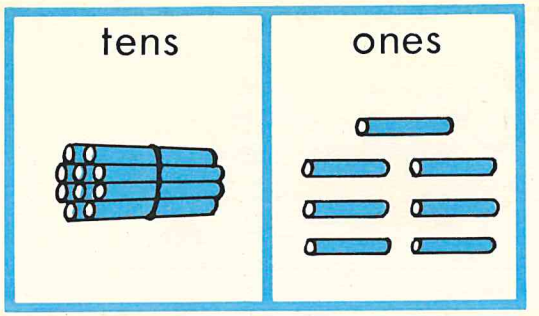

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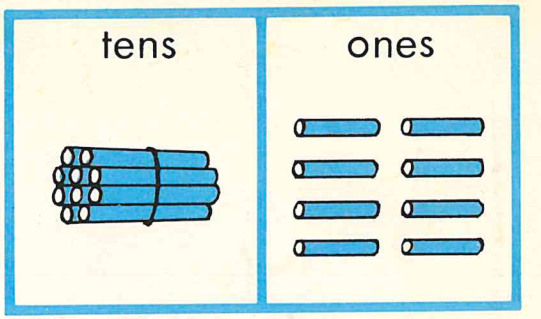

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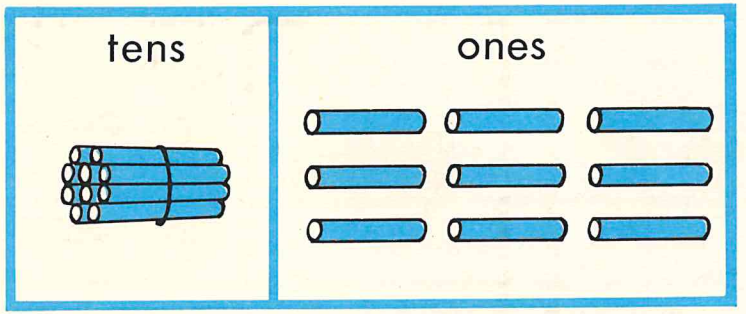

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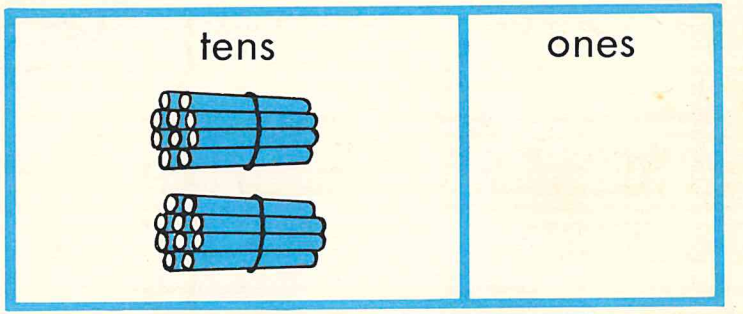

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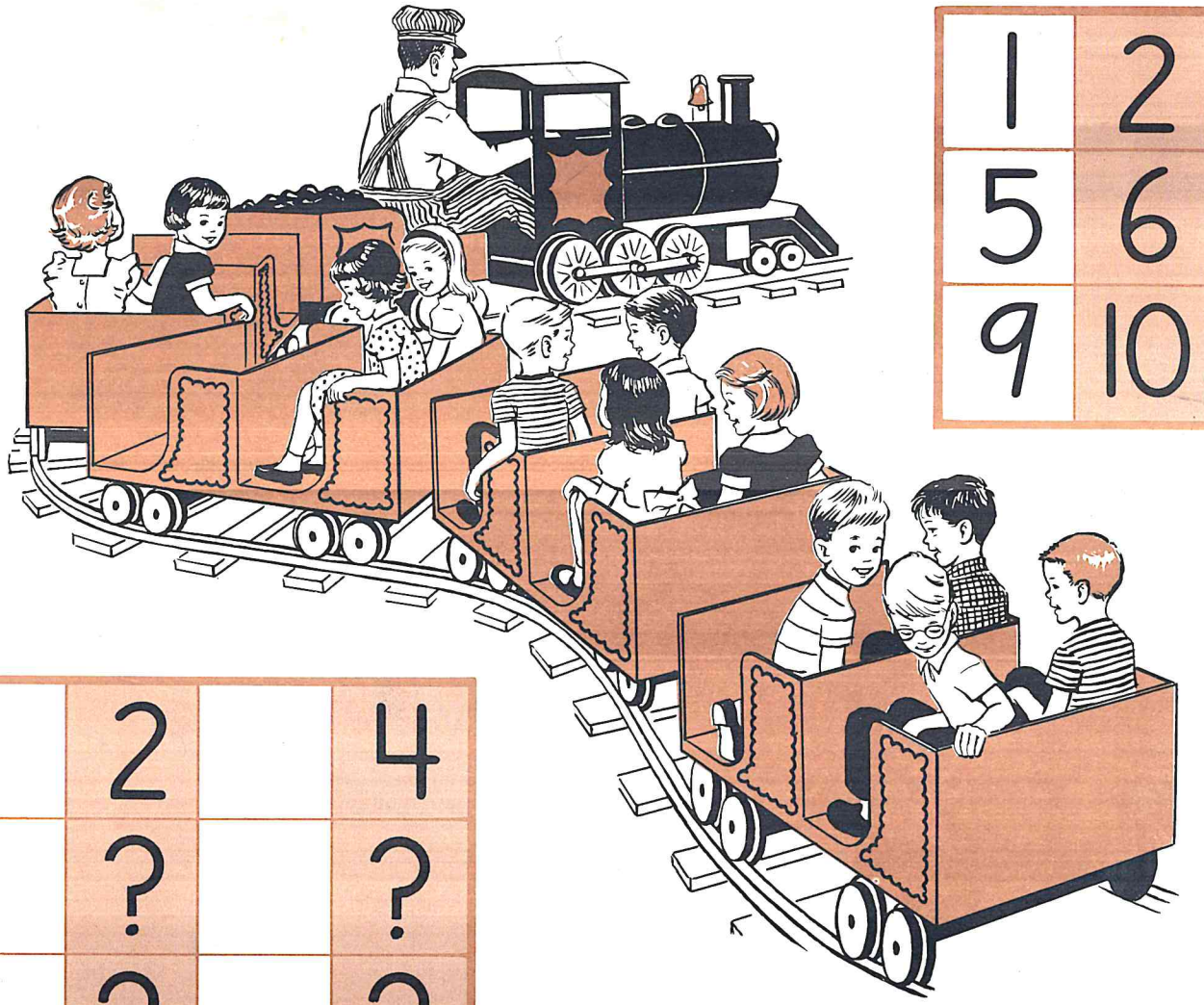

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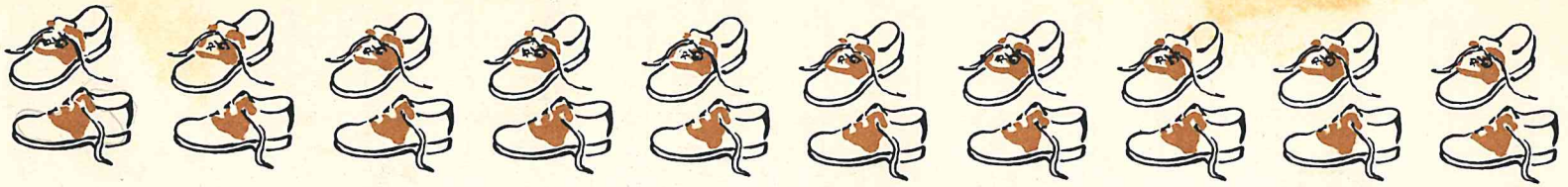

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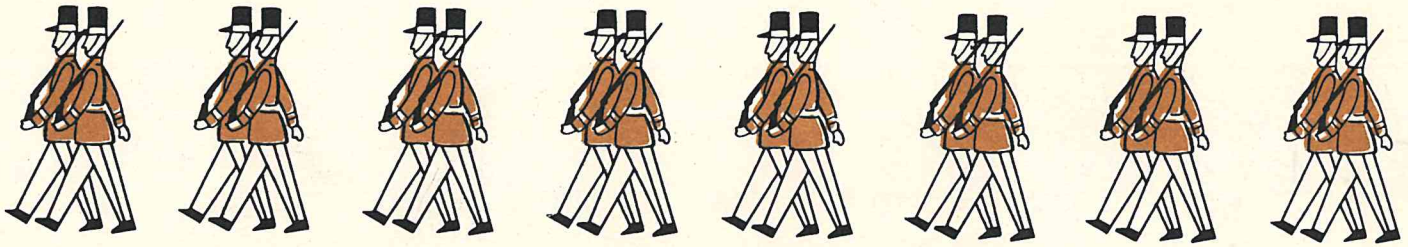

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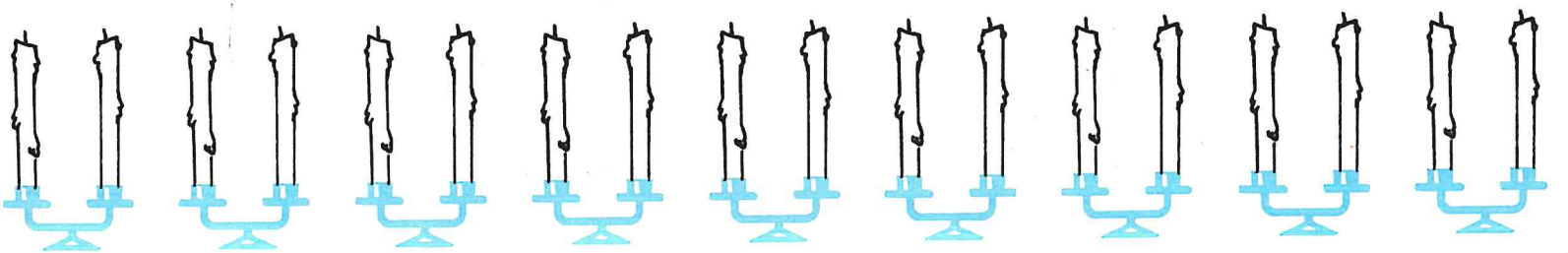

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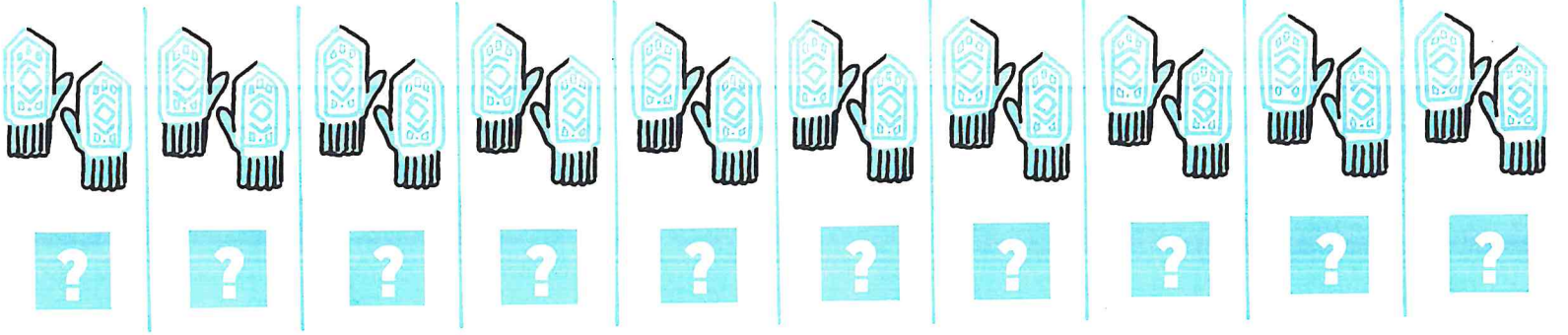

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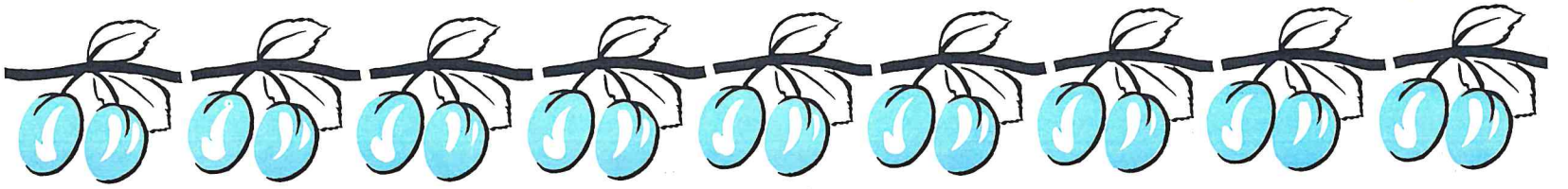

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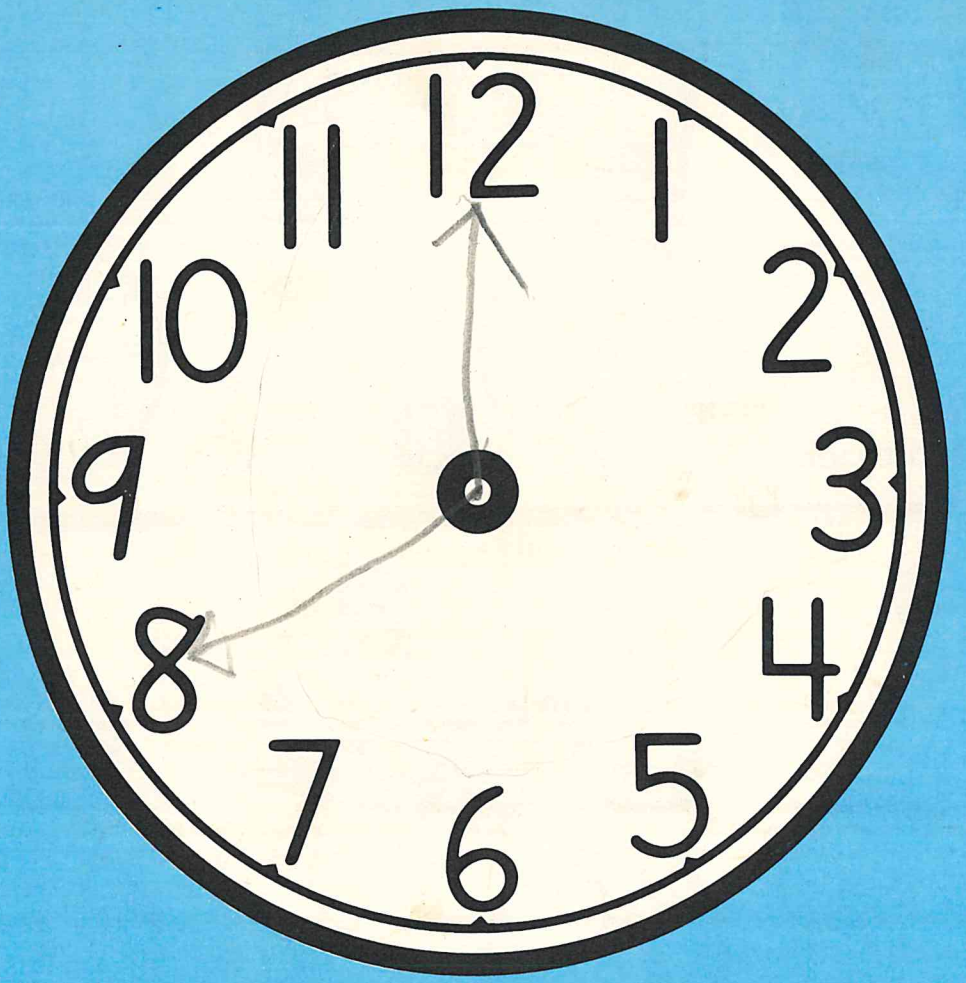
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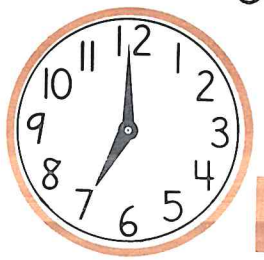

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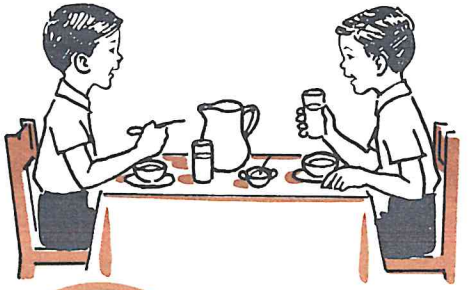

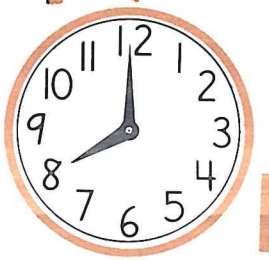

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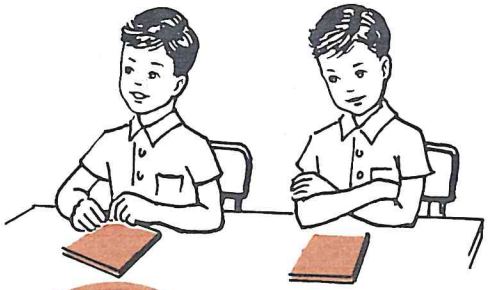

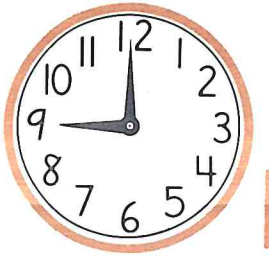

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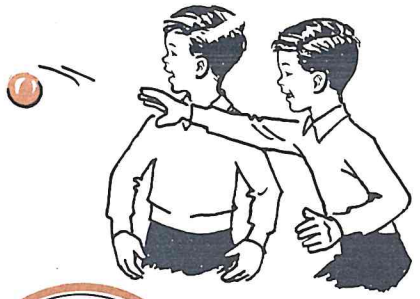

? o'clock

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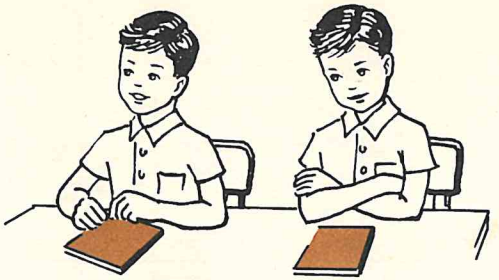

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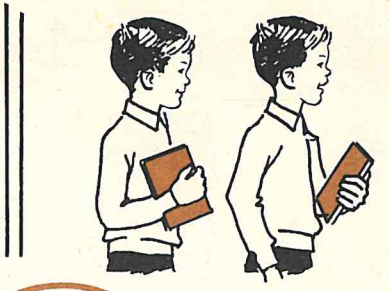

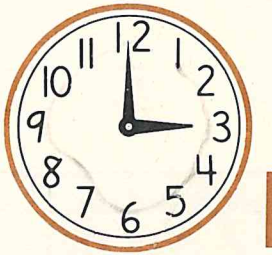

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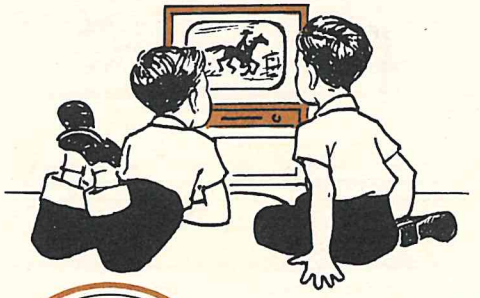

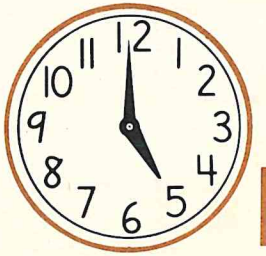

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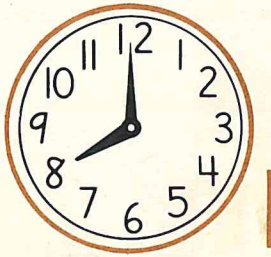
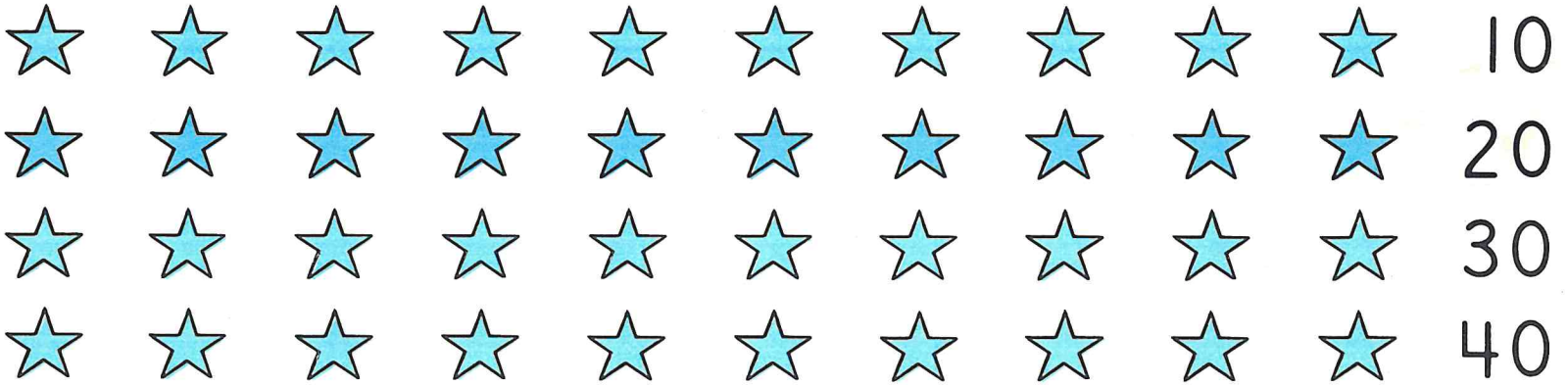
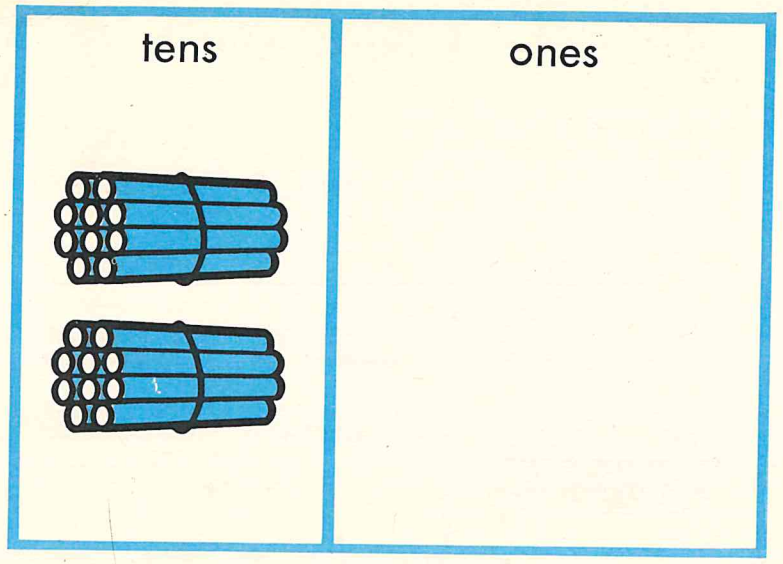


? o'clock



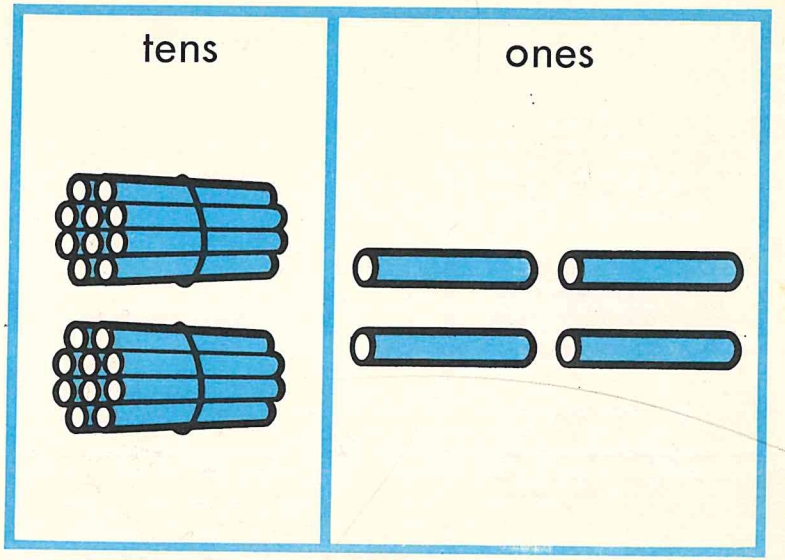
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

25		23		29		31		33	
	21		27		40		22		36
24		38		34		39		35	



2 tens 0 ones

20 in all



? tens ? ones

? in all

21 is 2 tens 1 one.

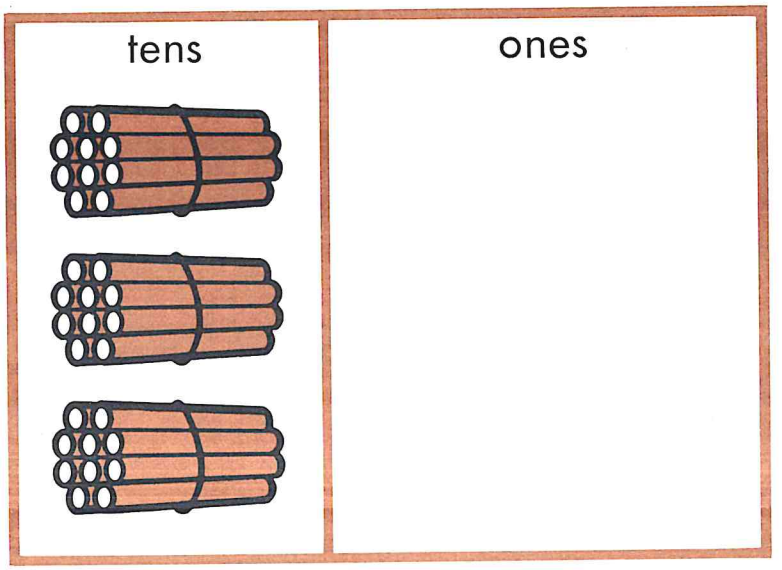
28 is ? tens ? ones.

20 is ? tens ? ones.

22 is ? tens ? ones.

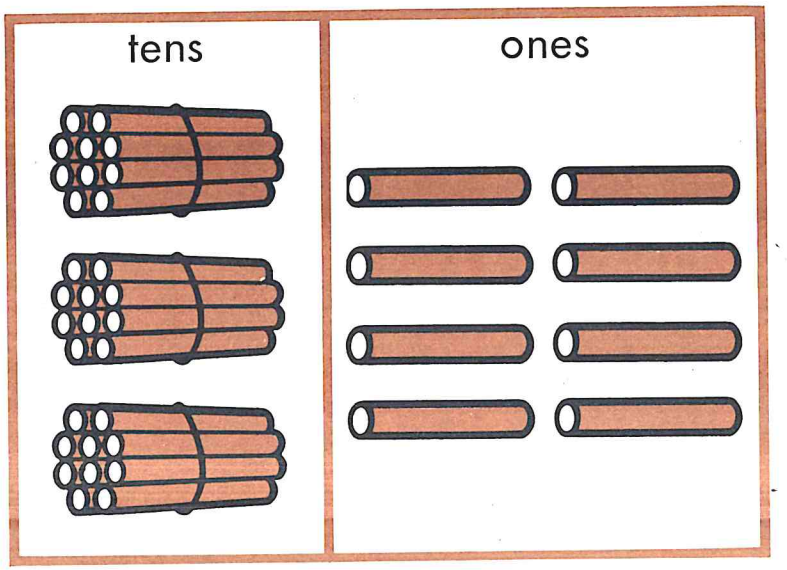
25 is ? tens ? ones.

27 is ? tens ? ones.



3 tens 0 ones

30 in all



? tens ? ones

? in all

32 is ? tens ? ones.

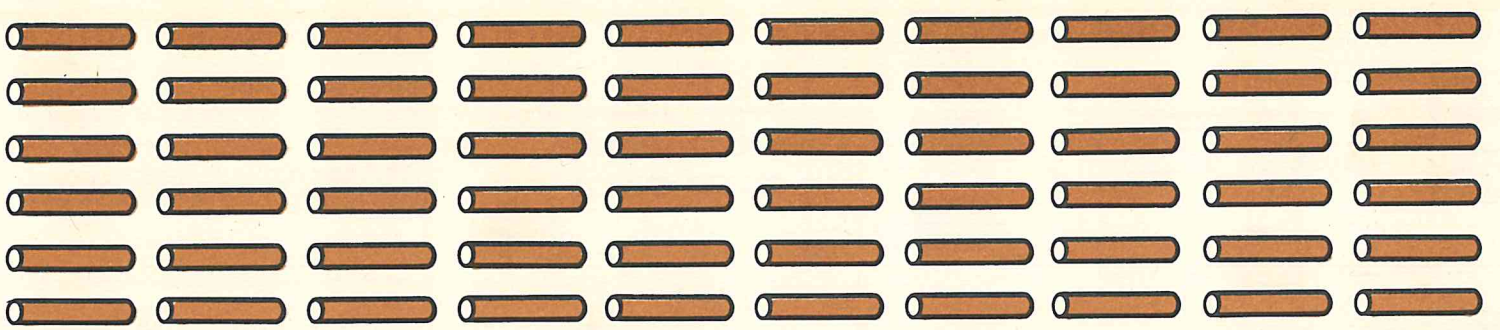
36 is ? tens ? ones.

39 is ? tens ? ones.

30 is ? tens ? ones.

34 is ? tens ? ones.

37 is ? tens ? ones.



10
20
30
40
50
60

41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

42		30		45		48		44	
	26		37		53		56		60
59		28		50		47		54	
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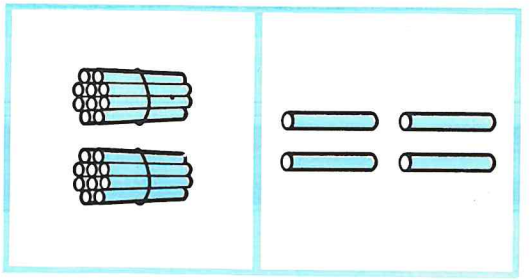
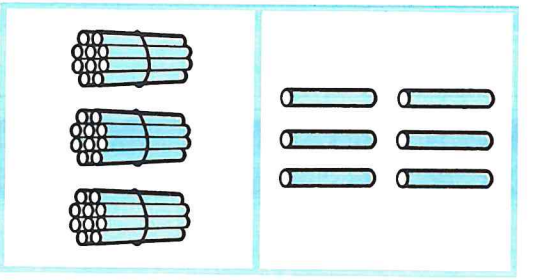


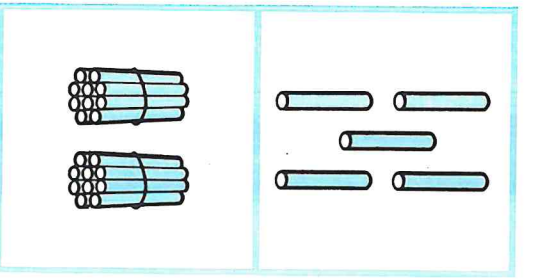
? tens ? ones

? in all



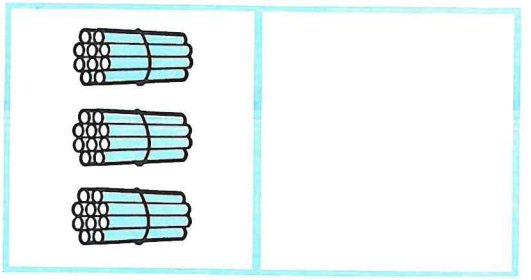
? tens ? ones

? in all



? tens ? ones

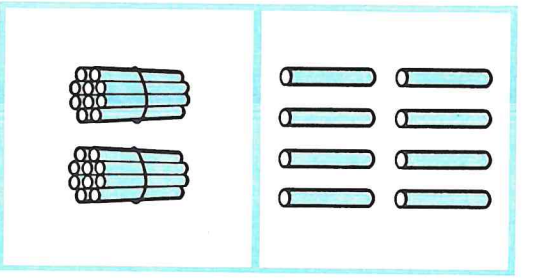
? in all



? tens ? ones

? in all

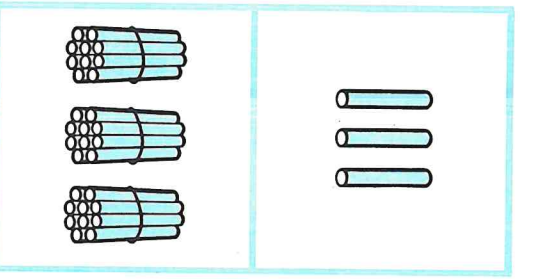
24 26 25



? tens ? ones

? in all

35 34 36



? tens ? ones

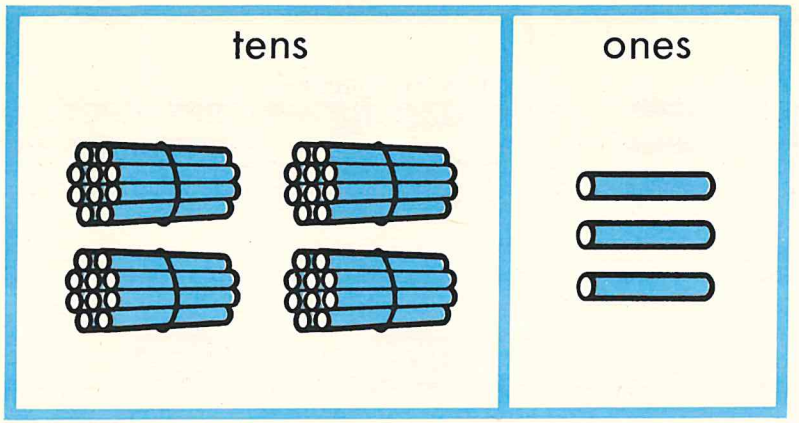
? in all

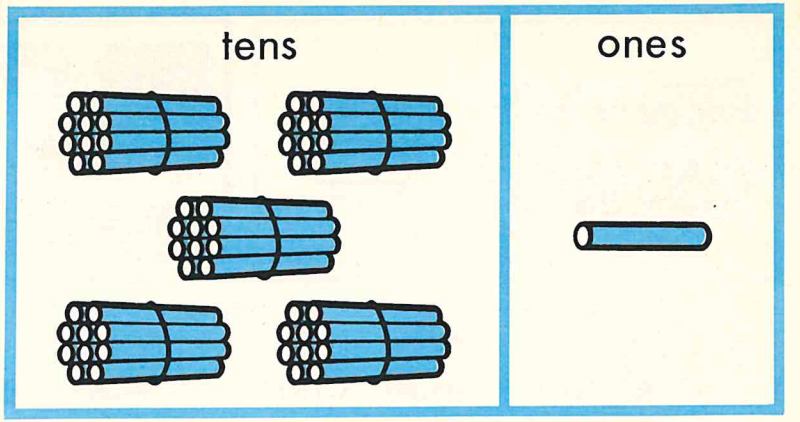
24 34 30

? tens ? ones

? in all

36 29 27





? tens ? ones

? in all

? tens ? one

? in all

40 is ? tens ? ones.

47 is ? tens ? ones.

45 is ? tens ? ones.

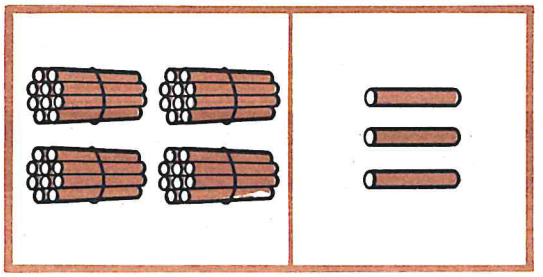
42 is ? tens ? ones.

50 is ? tens ? ones.

59 is ? tens ? ones.

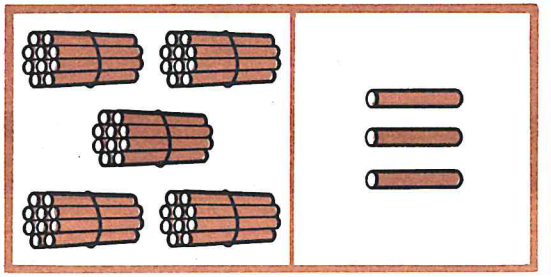
58 is ? tens ? ones.

53 is ? tens ? ones.



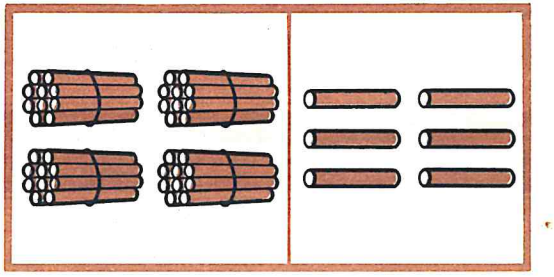
? tens ? ones

? in all



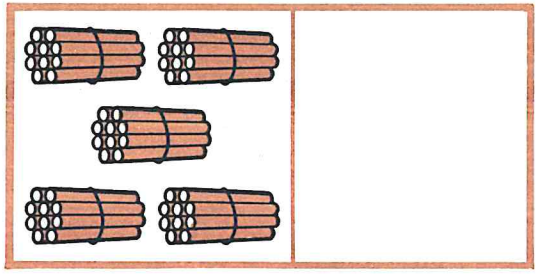
? tens ? ones

? in all



? tens ? ones

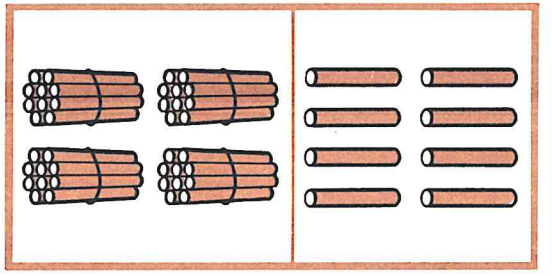
? in all



? tens ? ones

? in all

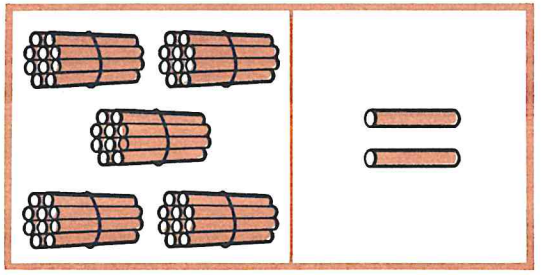
43 | 48 | 46



? tens ? ones

? in all

53 | 50 | 52



? tens ? ones

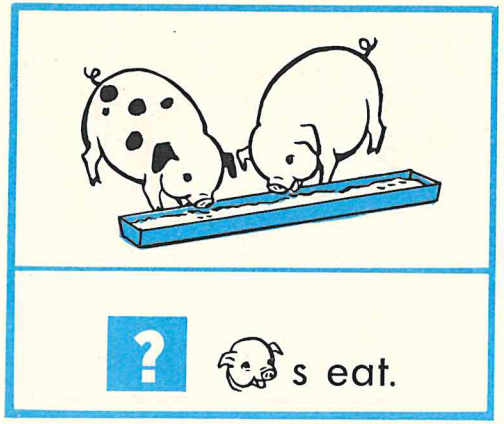
? in all

42 | 52 | 47

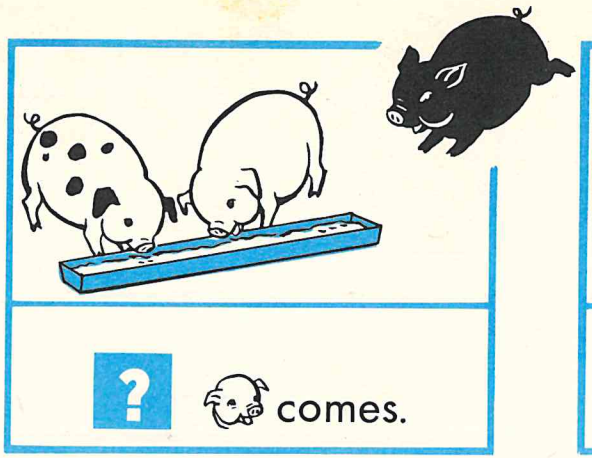
? tens ? ones

? in all

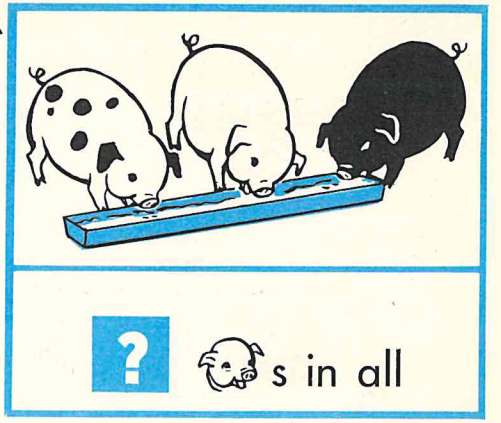
57 | 49 | 58



? s eat.

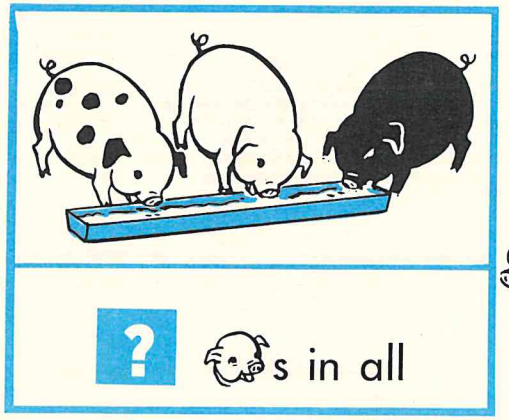


? comes.

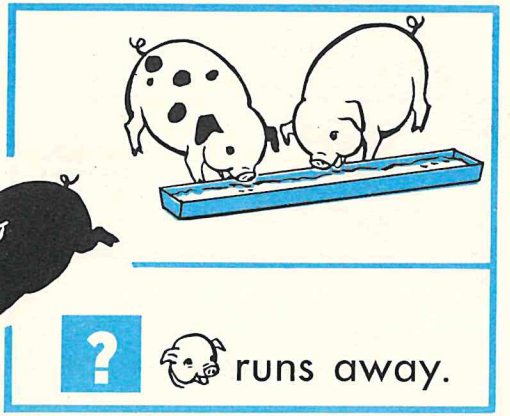


? s in all

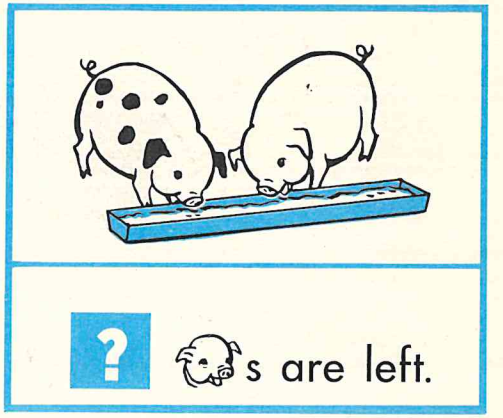
2 and 1 are ?



? s in all

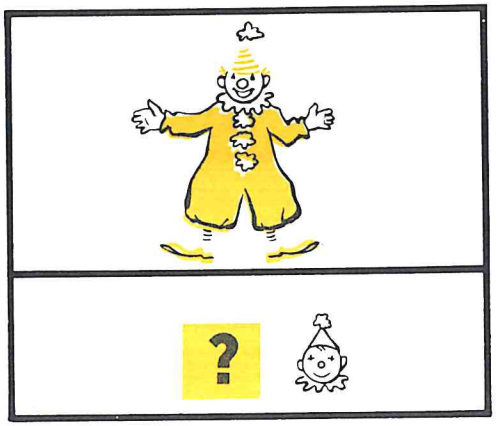


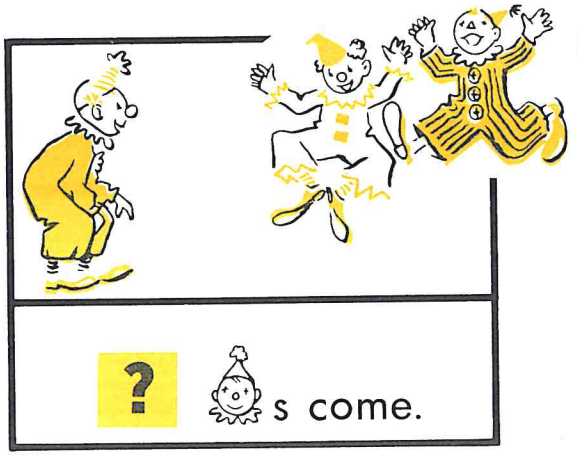
? runs away.

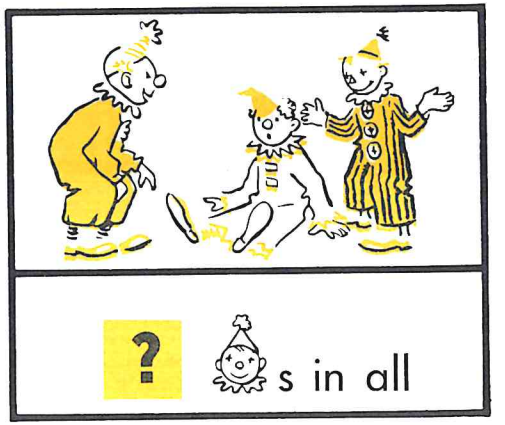


? s are left.

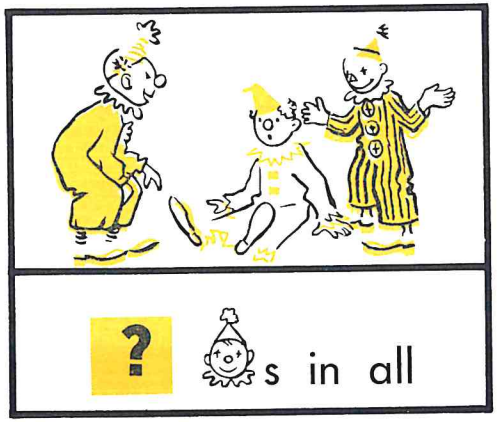
3 take away 1 are ?

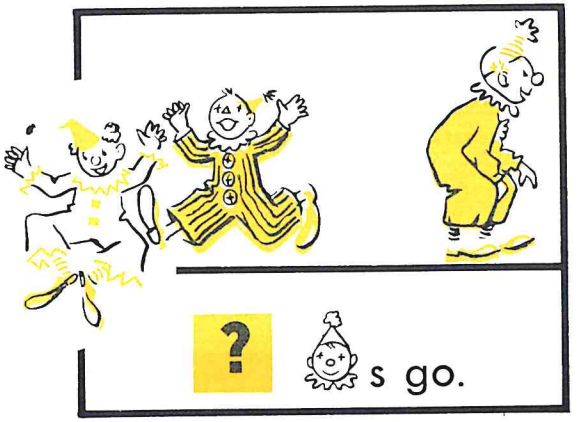


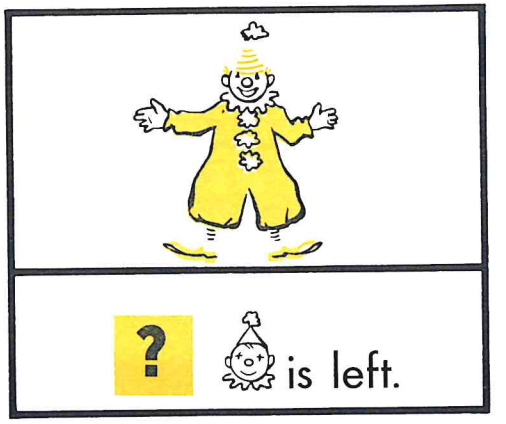




1 and 2 are ?

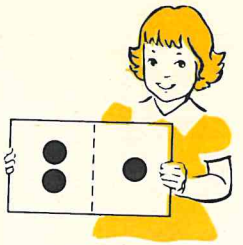






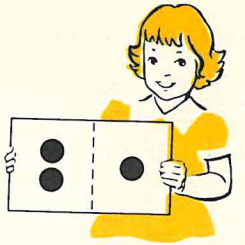
3 take away 2 is ?

You see ?



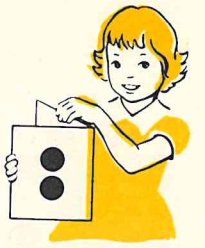
Open and see

2 and ? are ?



You see ?

in all.



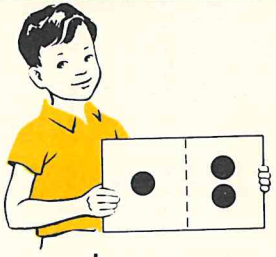
Take away 1.

? are left.

2 and 1 are ?

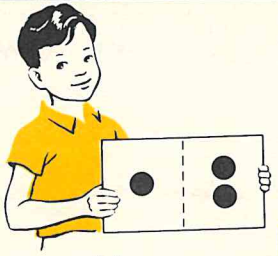
3 take away 1 are ?

You see ?



Open and see

1 and ? are ?



You see ?

in all.

Take away 2.

? is left.

1 and 2 are ?

3 take away 2 is ?

? s in all

? s fly away.

? is left.

3 take away 3 is ?

1 and 1 are ?

1 and 2 are ?

2 and 1 are ?

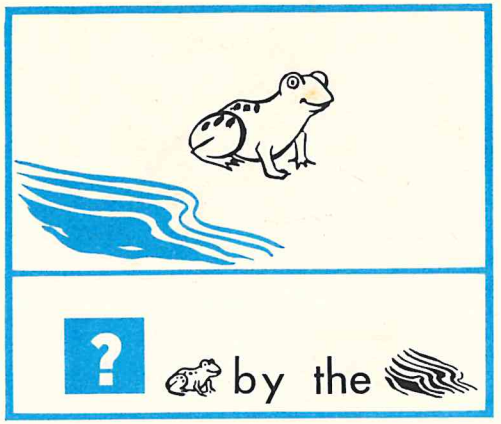
1 take away 1 is ?

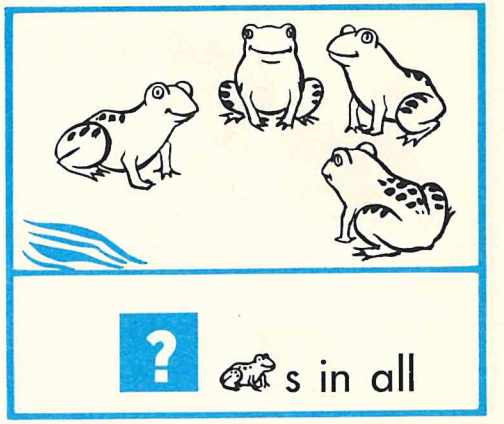
2 take away 1 is ?

2 take away 2 is ?

3 take away 1 are ?

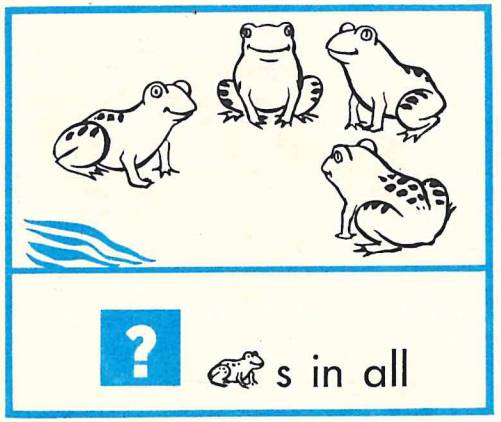
3 take away 2 is ?

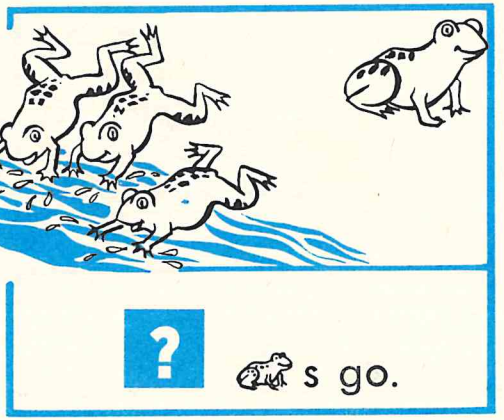


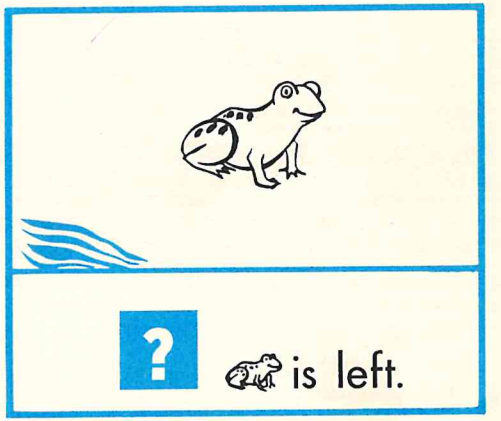


1 and 3 are ?

1 + 3 = ?

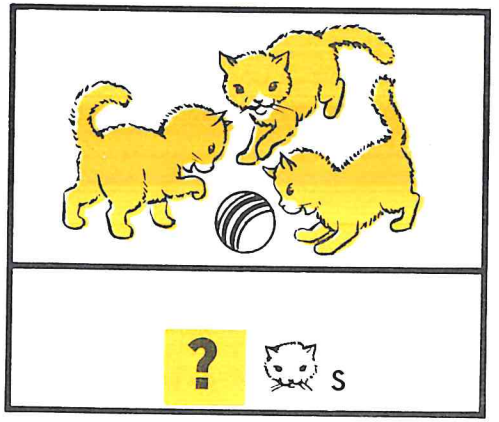


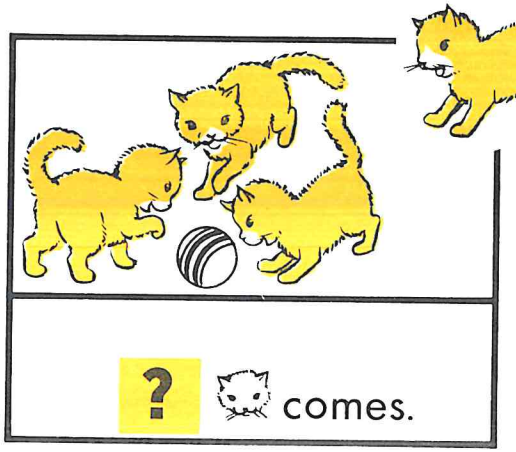


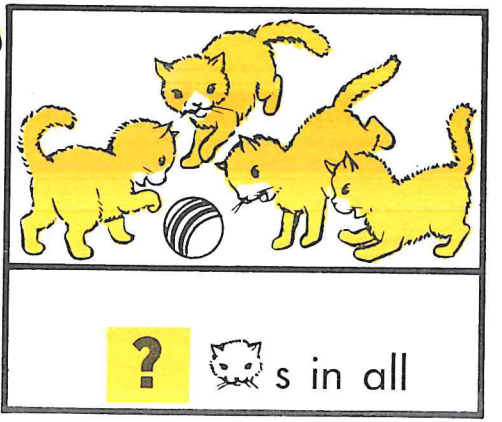


4 take away 3 is ?

4 − 3 = ?

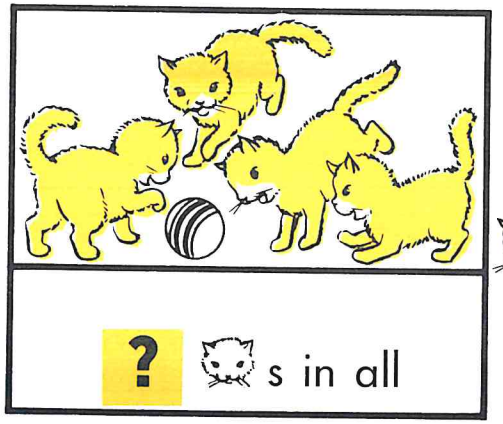


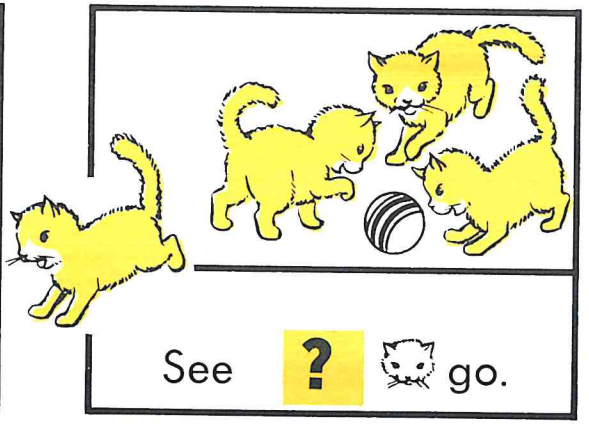


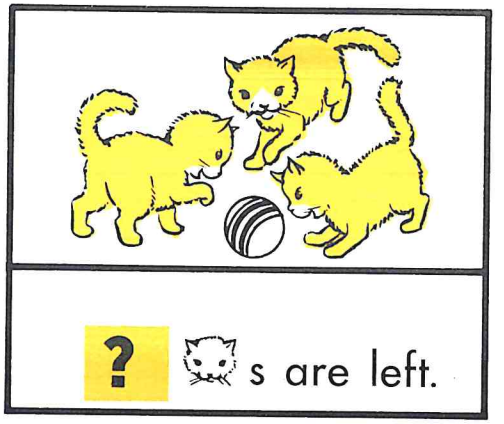


3 and 1 are ?

3 + 1 = ?



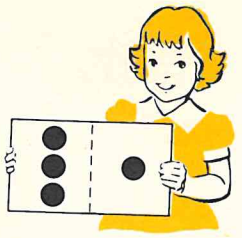




4 take away 1 are ?

4 − 1 = ?

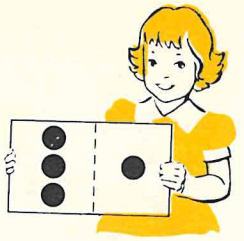
You see ?



Open and see

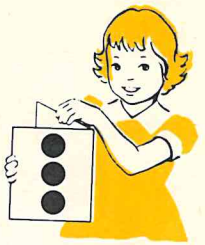
3 and ? are ?

3 and 1 are ?



You see ?

in all.

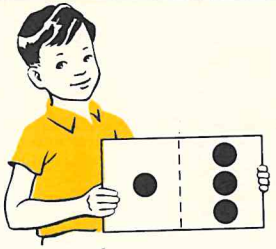


Take away 1.

? are left.

4 take away 1 are ?

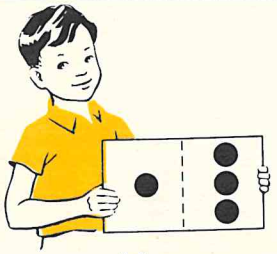
You see ?



Open and see

1 and ? are ?

1 and 3 are ?



You see ?

in all.

Take away 3.

? is left.

4 take away 3 is ?

? children

? more children come.

? children in all

2 and 2 are ?

2 + 2 = ?

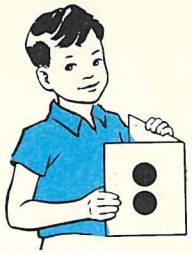
? children in all

? children go.

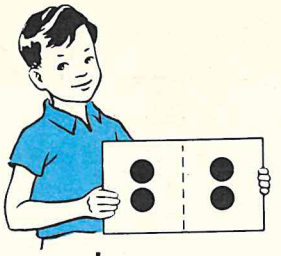
? children are left.

4 take away 2 are ?

4 − 2 = ?

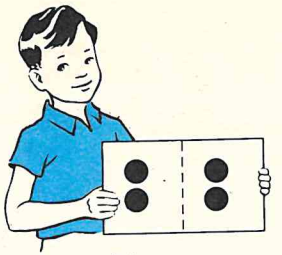


You see ?



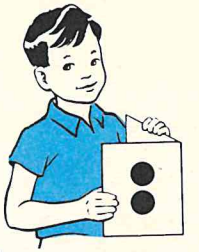
Open and see

2 and ? are ?



You see ?

in all.

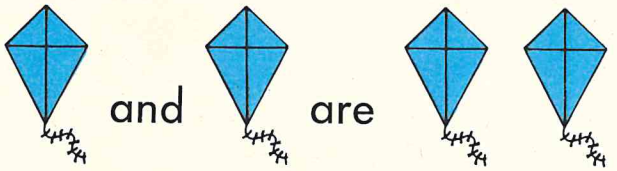


Take away 2.

? are left.

2 and 2 are ?

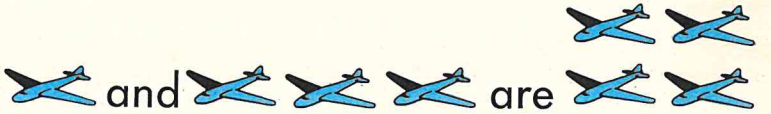
4 take away 2 are ?



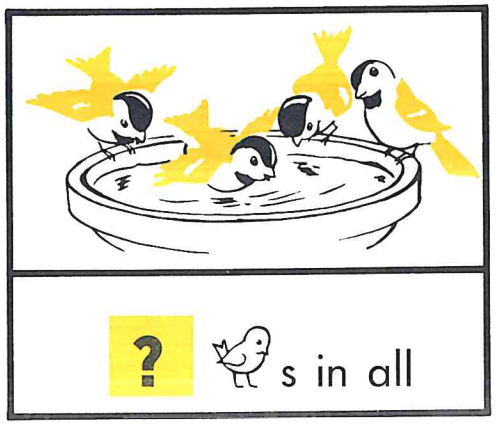
1 and 1 are 2.

? and ? are ?

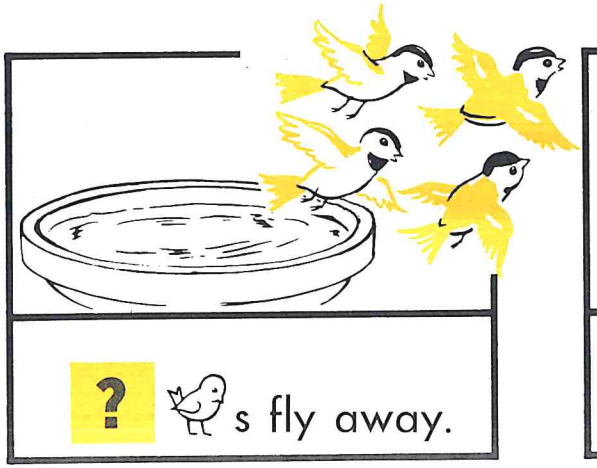
? and ? are ?



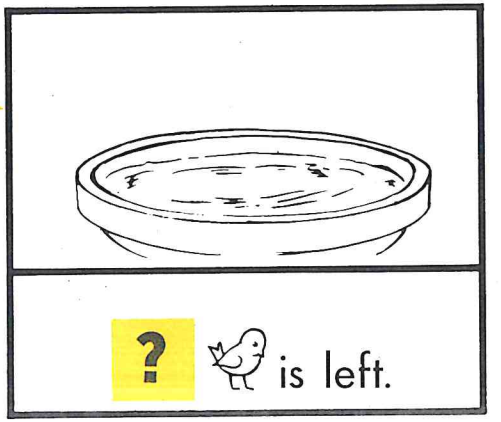
? and ? are ?



? s in all



? s fly away.

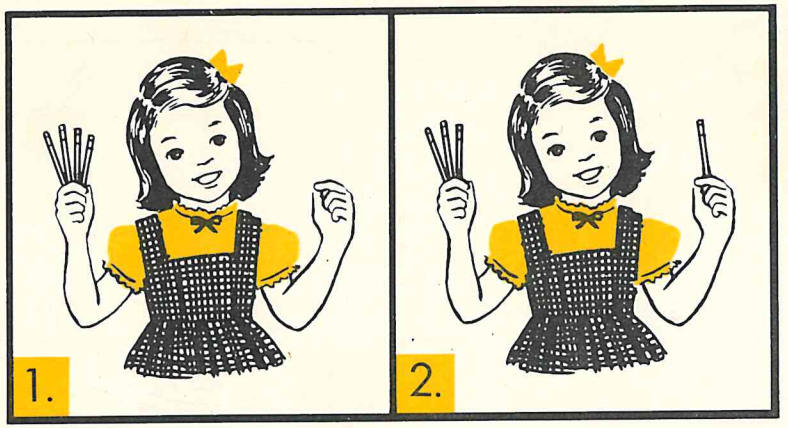


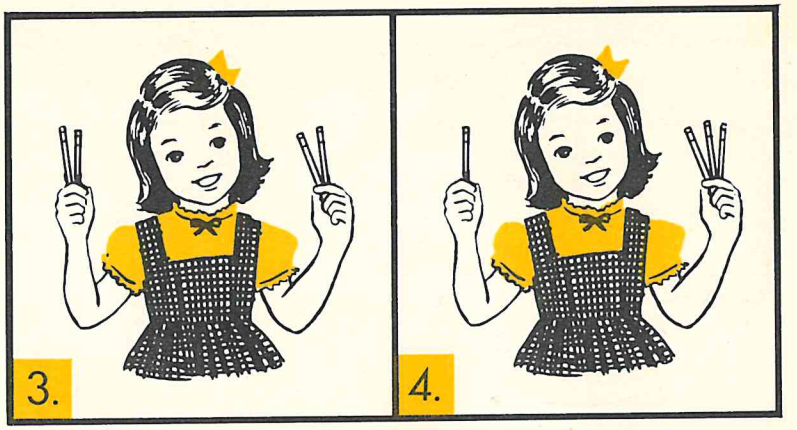
? is left.

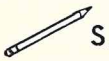
4 take away 4 is ?

4 − 4 = ?

1 + 1 = ?	2 + 2 = ?	2 − 2 = ?
2 + 1 = ?	1 − 1 = ?	3 − 2 = ?
3 + 1 = ?	2 − 1 = ?	4 − 2 = ?
1 + 2 = ?	3 − 1 = ?	3 − 3 = ?
1 + 3 = ?	4 − 1 = ?	4 − 4 = ?





1. has ?  s.

2. 4 is 3 and ?

3. 4 is 2 and ?

4. 4 is 1 and ?

---

41 is ? tens ? one.

46 is ? tens ? ones.

43 is ? tens ? ones.

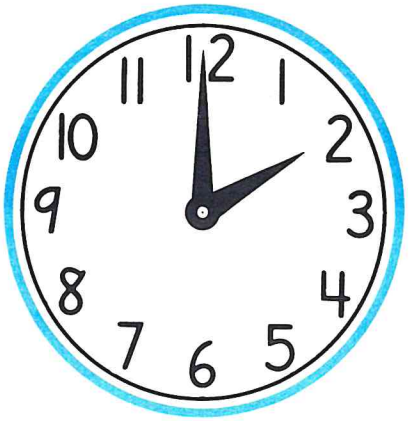
49 is ? tens ? ones.

60 is ? tens ? ones.

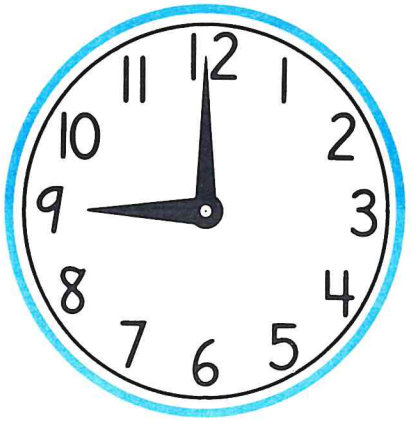
52 is ? tens ? ones.

54 is ? tens ? ones.

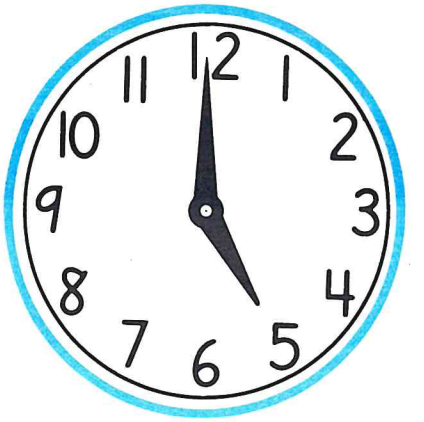
57 is ? tens ? ones.



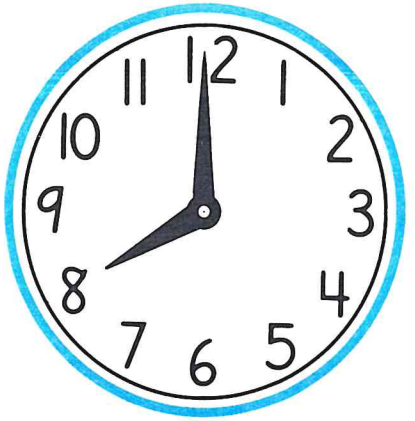
? o'clock



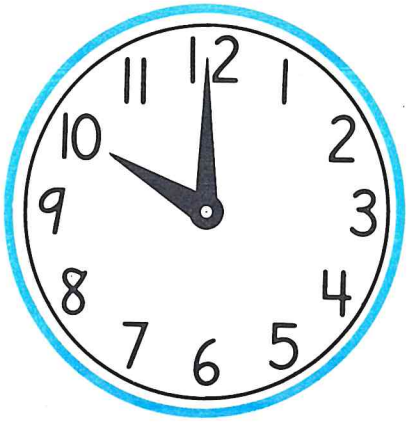
? o'clock



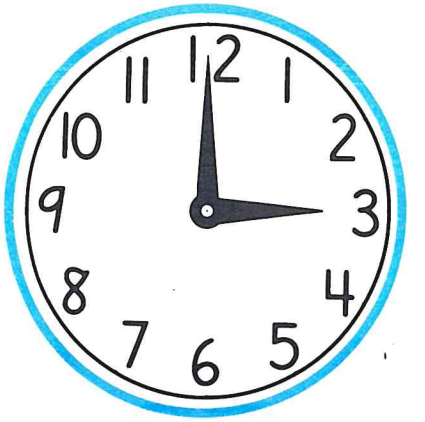
? o'clock



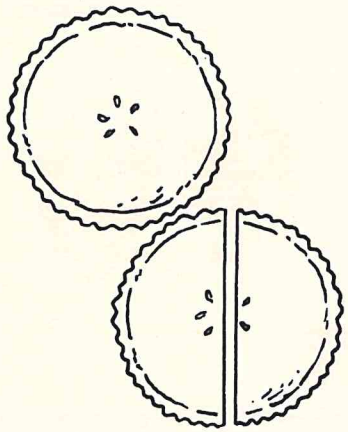
? o'clock

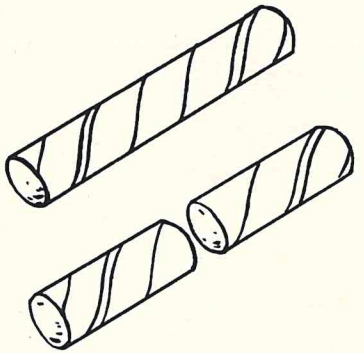


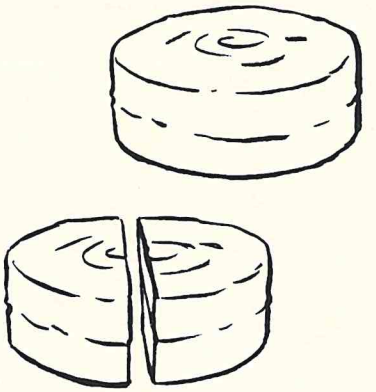
? o'clock

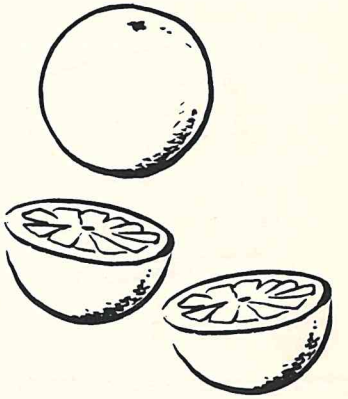


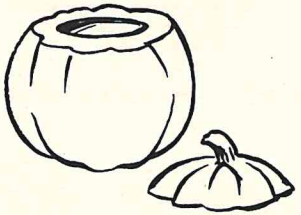
? o'clock

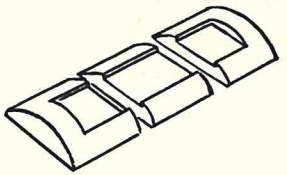


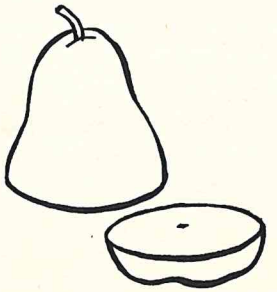


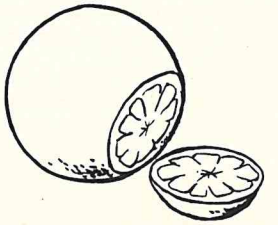


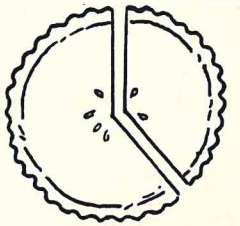


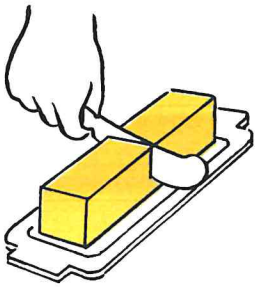




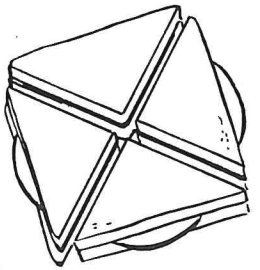








1



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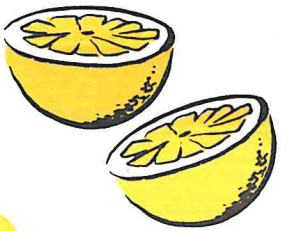

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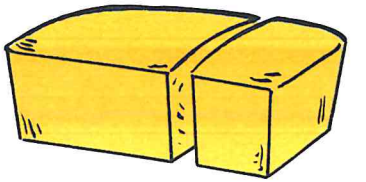

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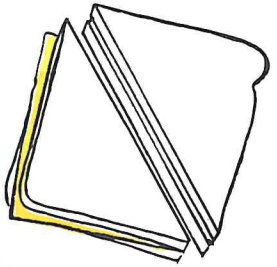

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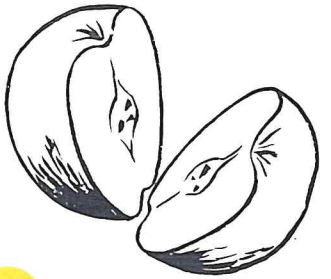

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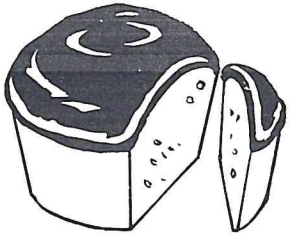

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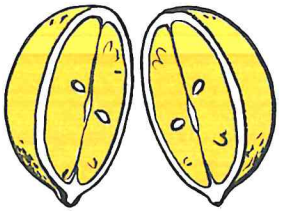
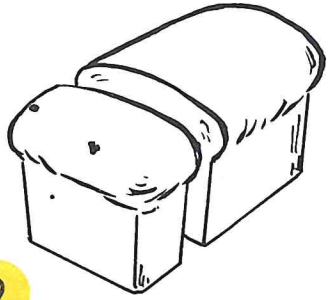
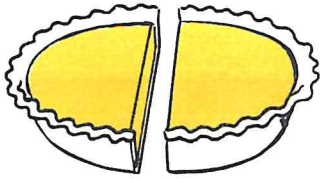


8



9

10



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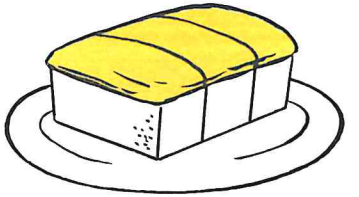


12

2 pints are as much as ? quart.

1 quart is as much as ? pints.

We need 4 quarts.

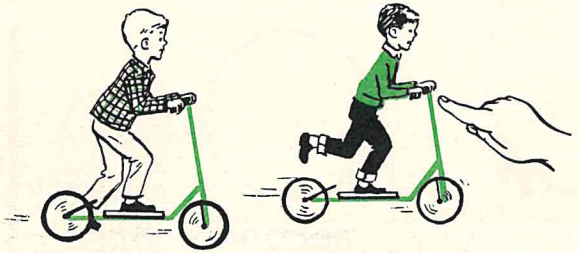
We need 4 quarts.

We need 4 quarts.

We need 4 quarts.

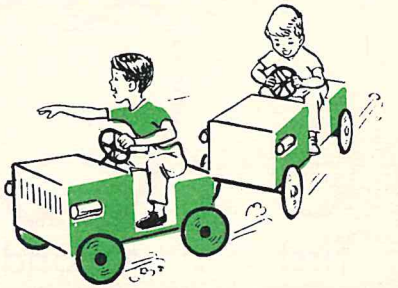
first second

first second



first second

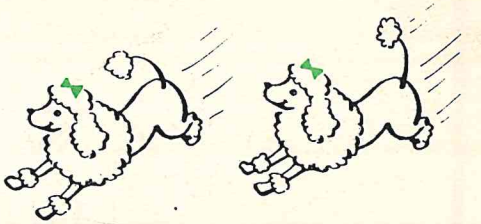
first second



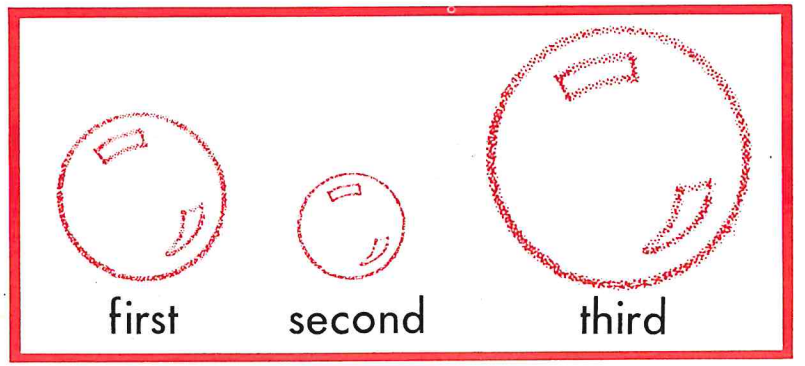
first second

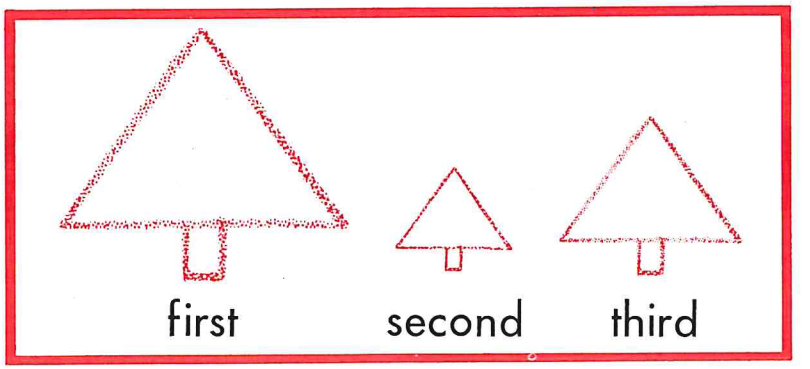
first second

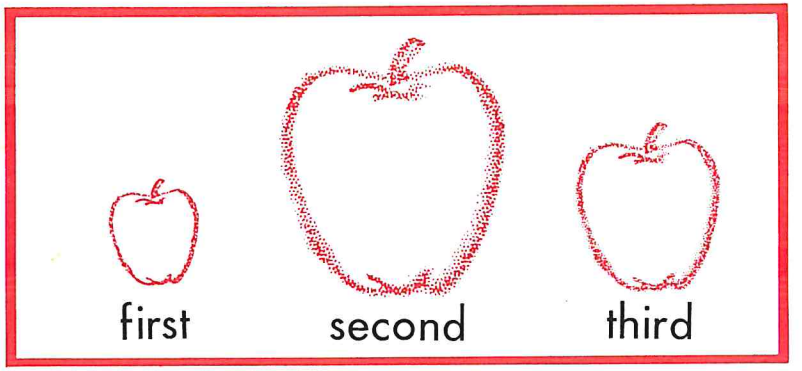
first second

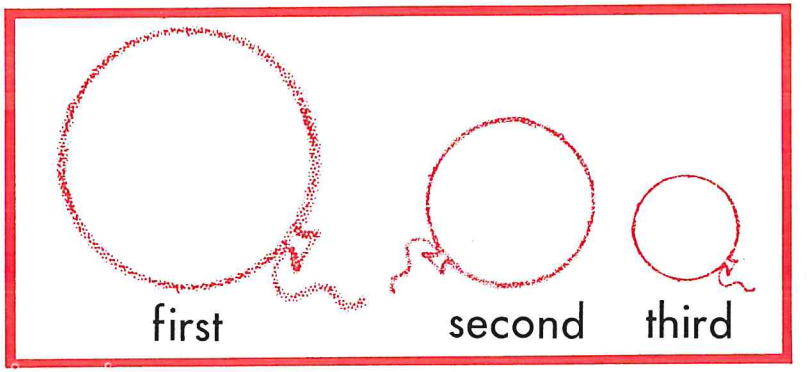


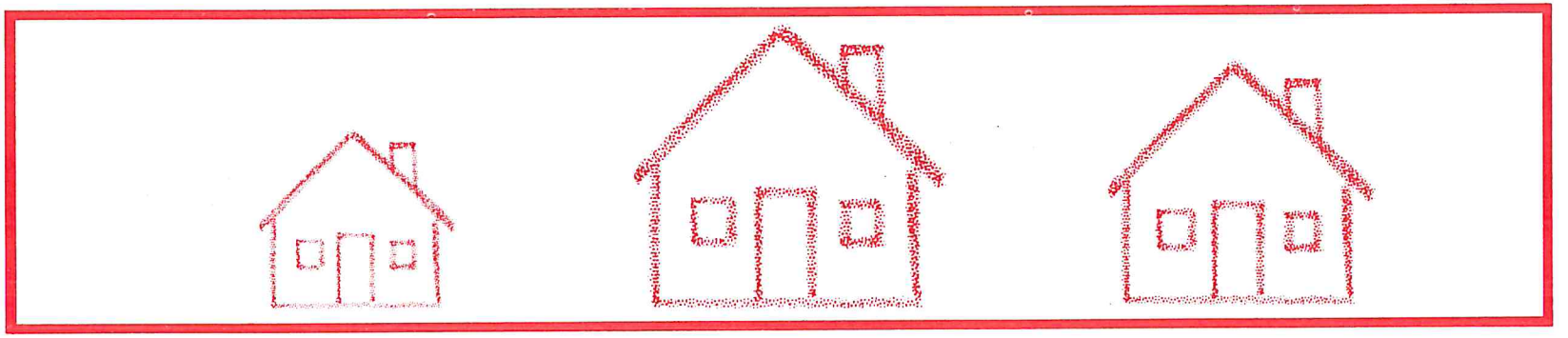
first second


first
second
third


first
second
third


first
second
third


first
second
third



first

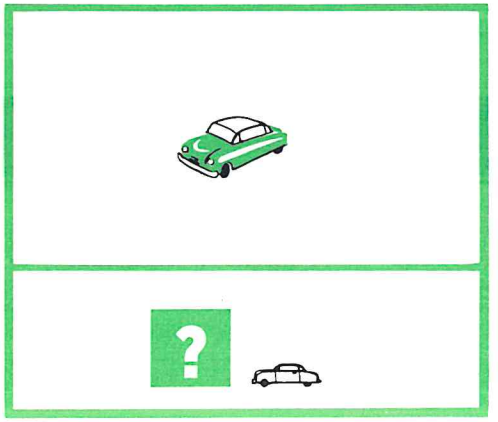
second

third

fourth

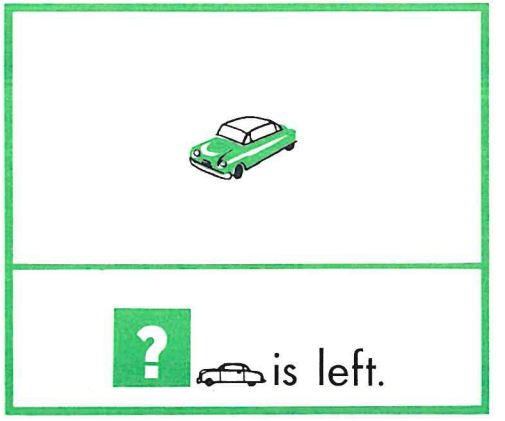
fifth

third fourth	third second	fifth third	fourth first
first fifth	third first	fourth fifth	fifth fourth



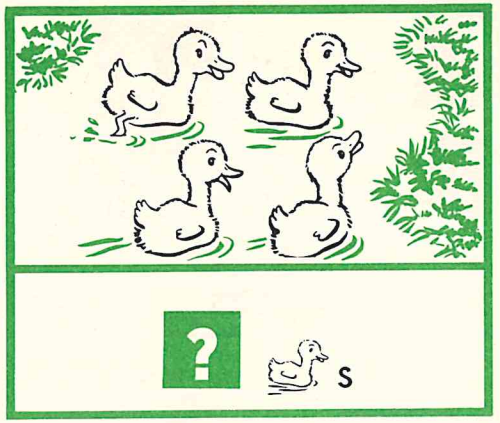
1 and 4 are ?

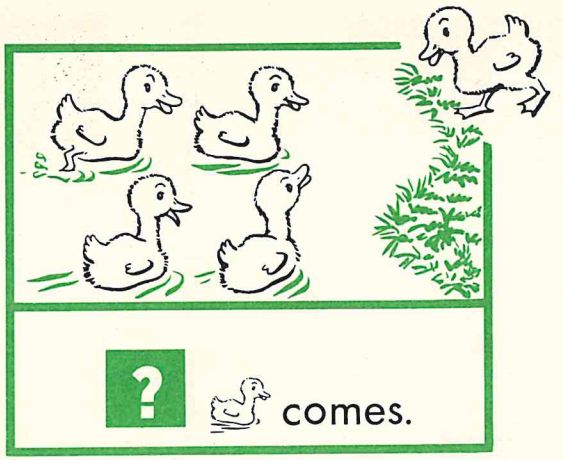
1 + 4 = ?

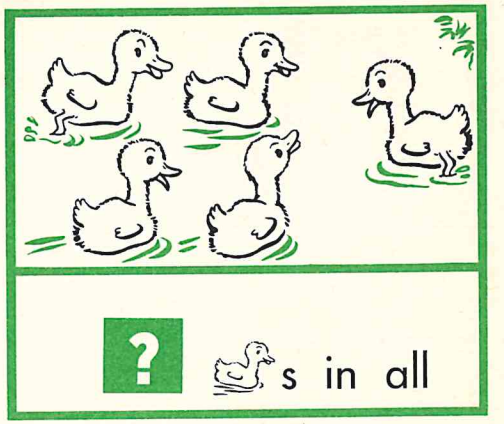


5 take away 4 is ?

5 − 4 = ?

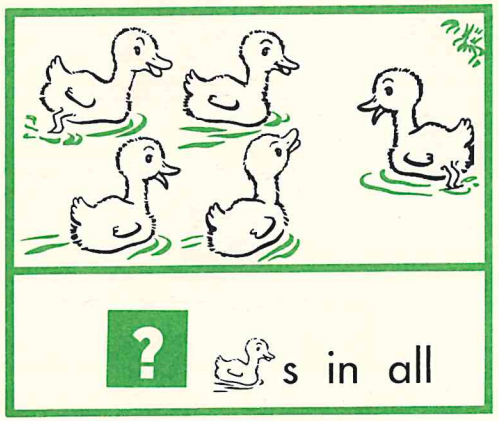


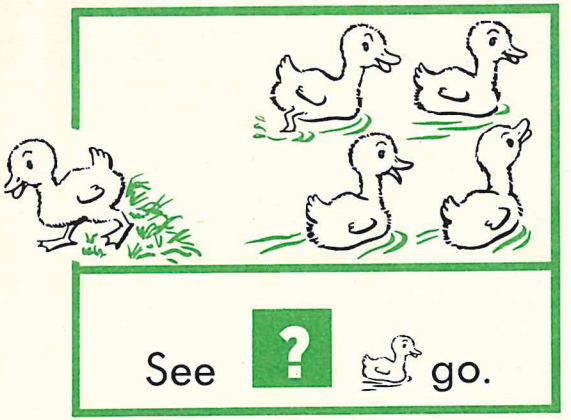


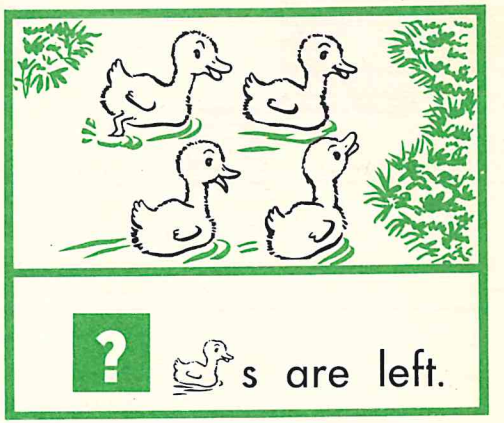


4 and 1 are ?

4 + 1 = ?

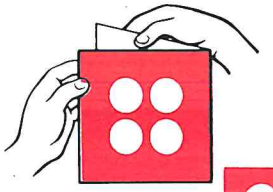




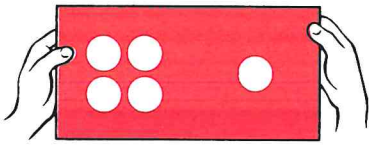


5 take away 1 are ?

5 − 1 = ?

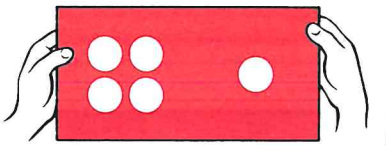


You see ?



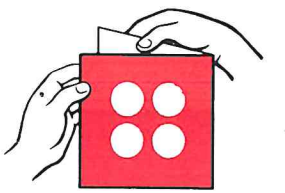
Open and see

4 and ? are ?



You see ?

in all.

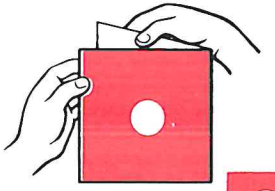


Take away 1.

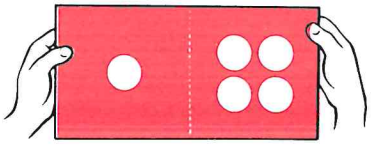
? are left.

4 and 1 are ?

5 take away 1 are ?

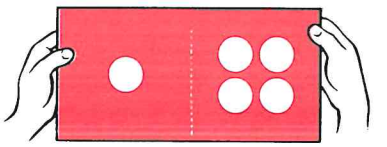


You see ?



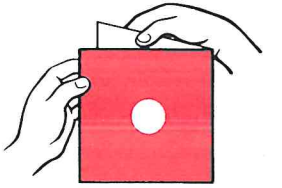
Open and see

1 and ? are ?



You see ?

in all.



Take away 4.

? is left.

1 and 4 are ?

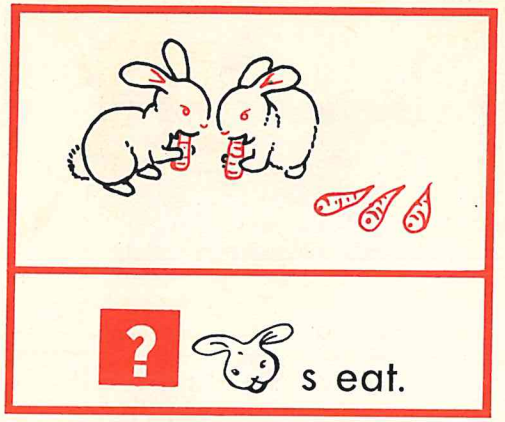
5 take away 4 is ?

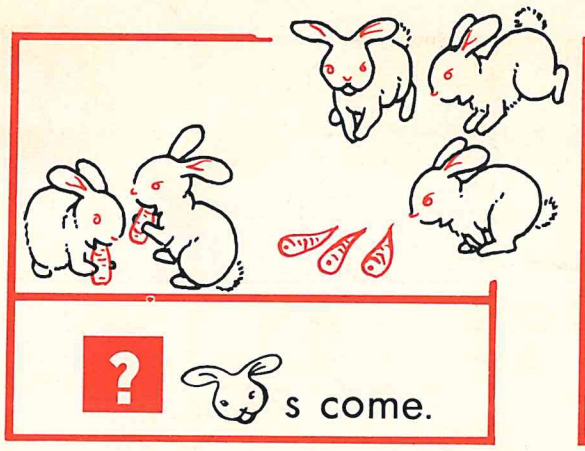
4 + 1 = ?

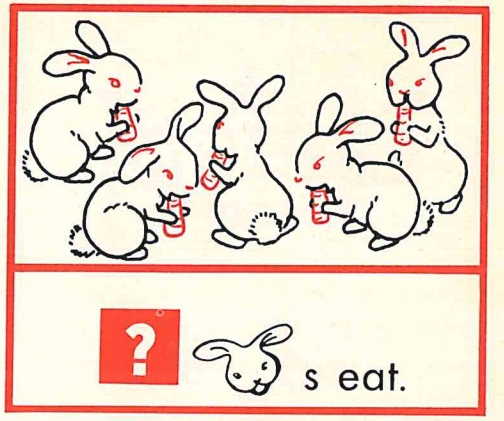
1 + 4 = ?

5 − 1 = ?

5 − 4 = ?

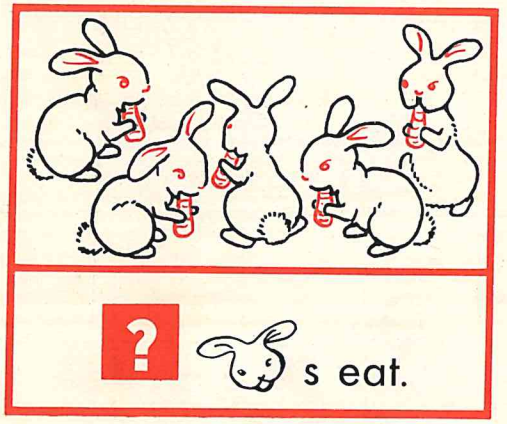


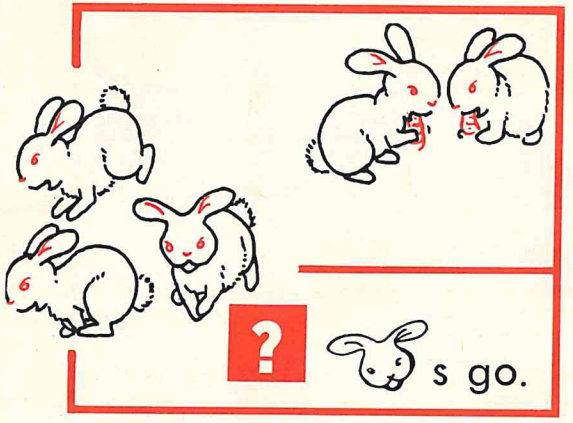


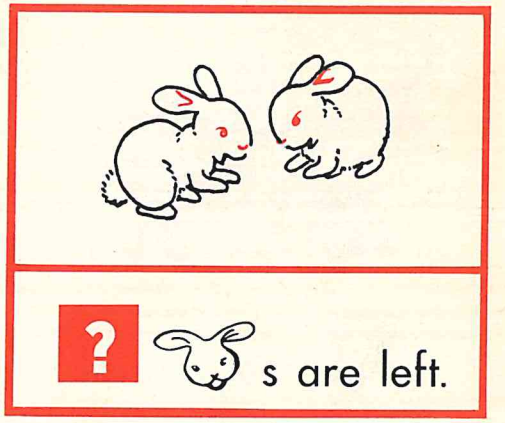


2 and 3 are ?

2 + 3 = ?

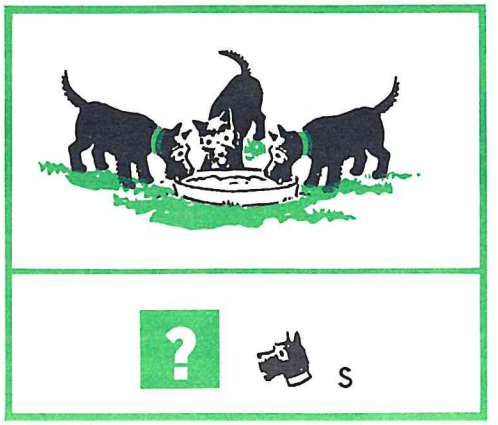






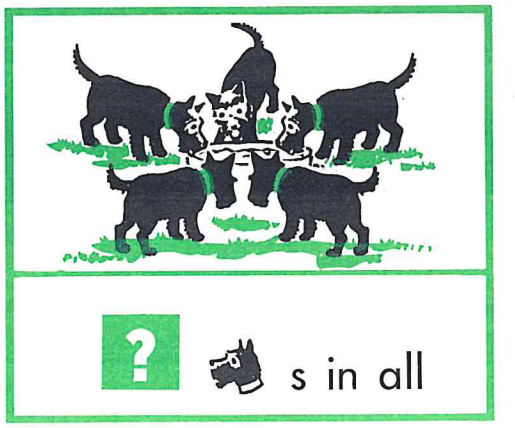
5 take away 3 are ?

5 − 3 = ?



? s

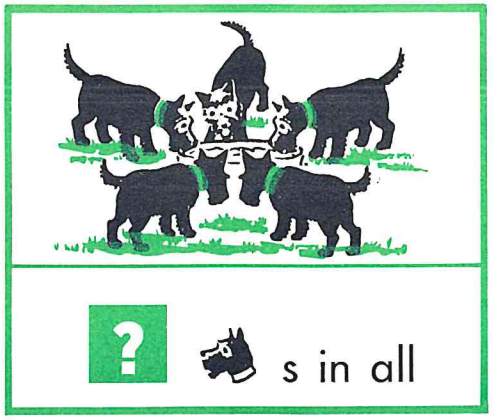
? s come.



? s in all

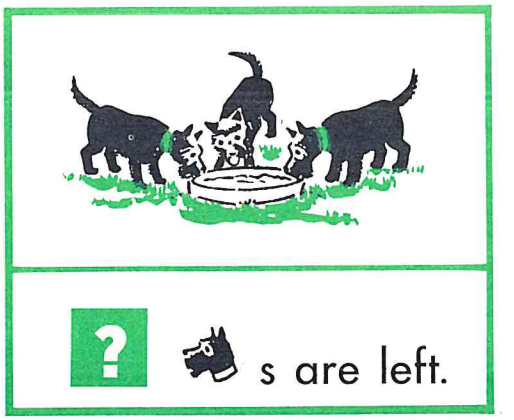
3 and 2 are ?

3 + 2 = ?



? s in all

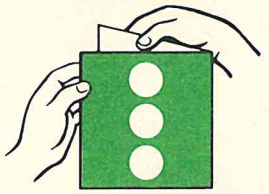
? s run away.



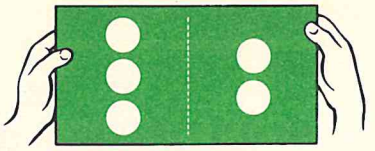
? s are left.

5 take away 2 are ?

5 − 2 = ?

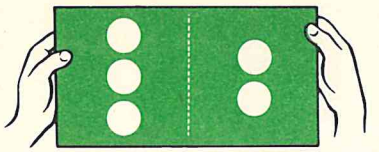


You see ?



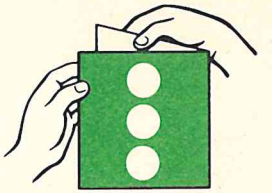
Open and see

3 and ? are ?



You see ?

in all.

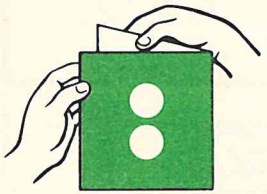


Take away 2.

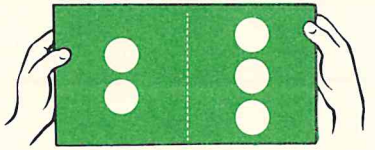
? are left.

3 and 2 are ?

5 take away 2 are ?

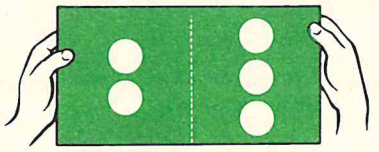


You see ?



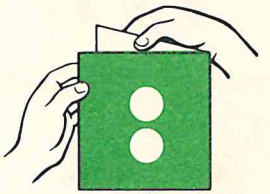
Open and see

2 and ? are ?



You see ?

in all.



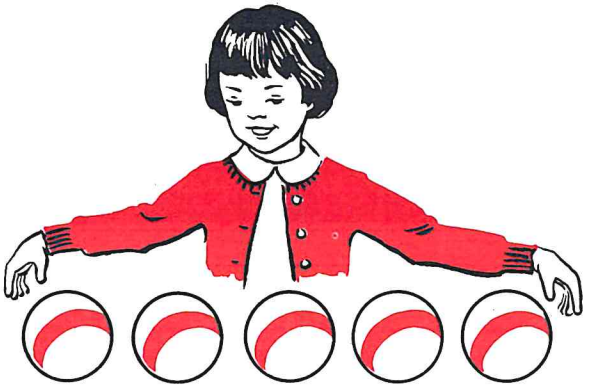
Take away 3.

? are left.

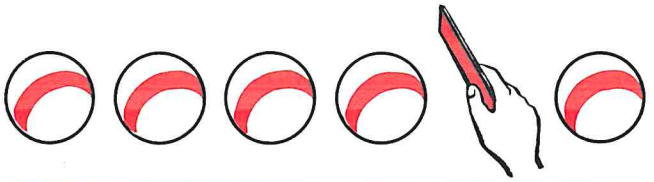
2 and 3 are ?

5 take away 3 are ?

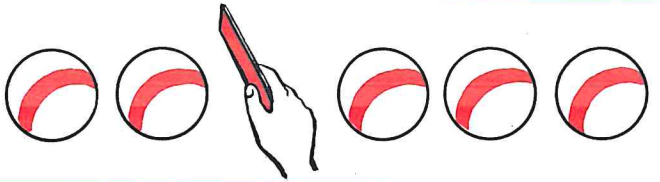
$3 + 2 =$? $2 + 3 =$? $5 - 2 =$? $5 - 3 =$?



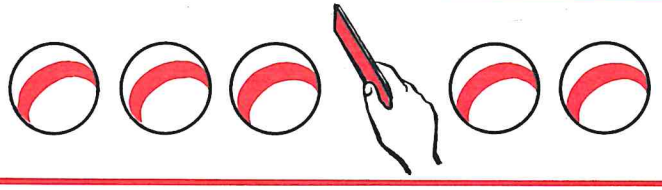
has ? s.



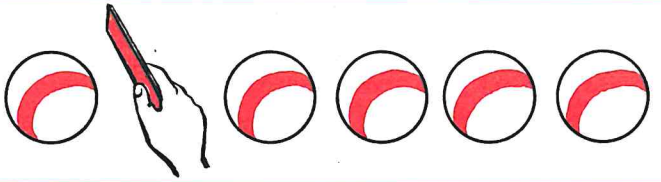
5 is 4 and ?



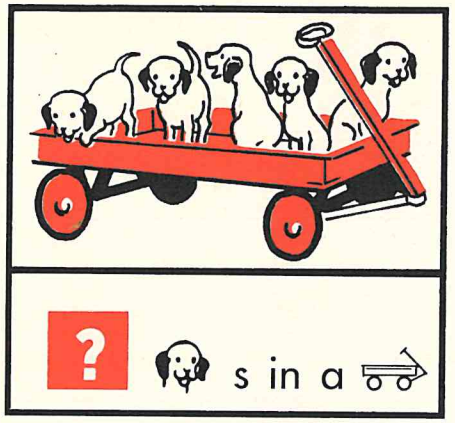
5 is 2 and ?



5 is ? and ?

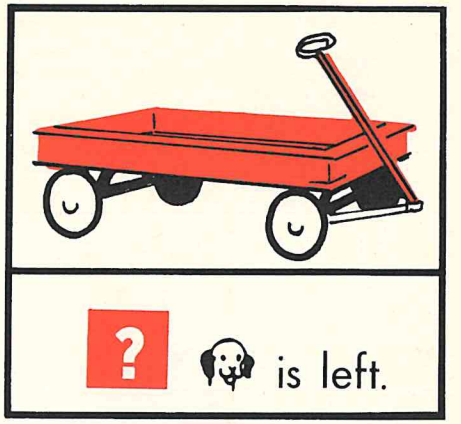


5 is ? and ?



? s in a

? s go.

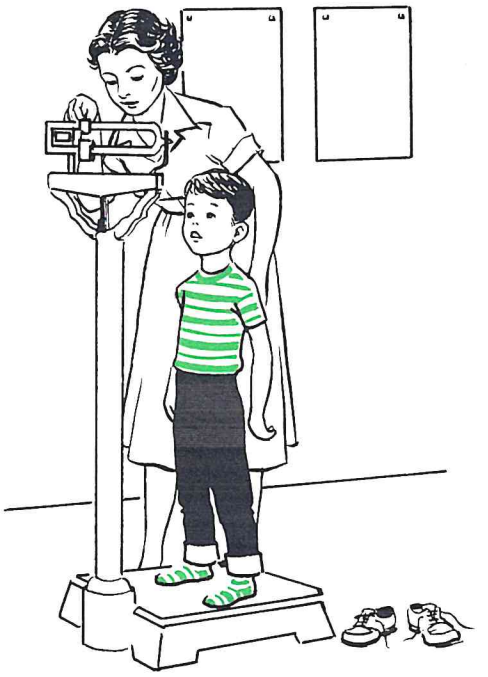


? is left.

5 take away 5 is ?

5 − 5 = ?

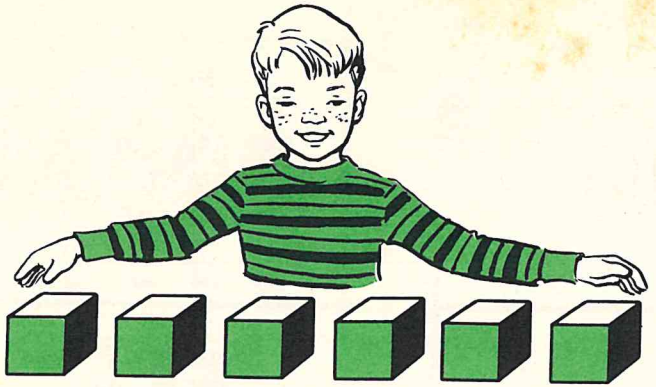
1 + 1 =	3 + 2 =	5 − 1 =	3 − 3 =
3 + 1 =	1 + 3 =	4 − 1 =	5 − 3 =
2 + 1 =	2 + 3 =	2 − 2 =	4 − 3 =
4 + 1 =	1 + 4 =	4 − 2 =	4 − 4 =
1 + 2 =	2 − 1 =	3 − 2 =	5 − 4 =
2 + 2 =	3 − 1 =	5 − 2 =	5 − 5 =

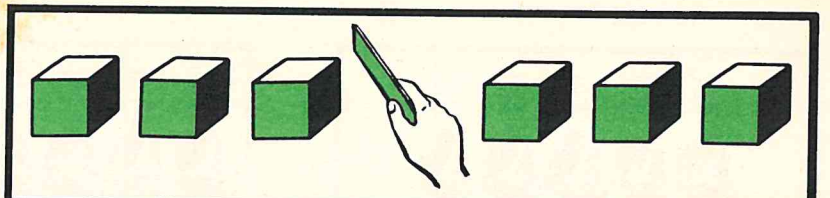


50	46	49
60	52	51
58	60	59

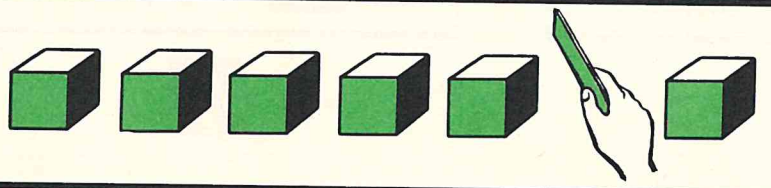
59	56	54
45	48	53
57	59	60

51	52	50
44	46	45
49	45	42

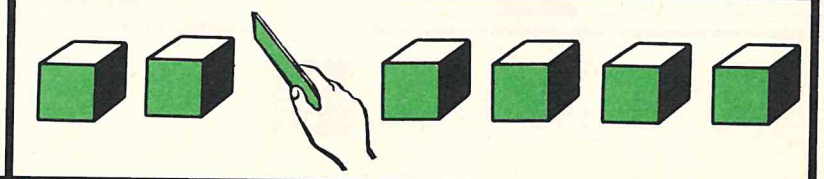




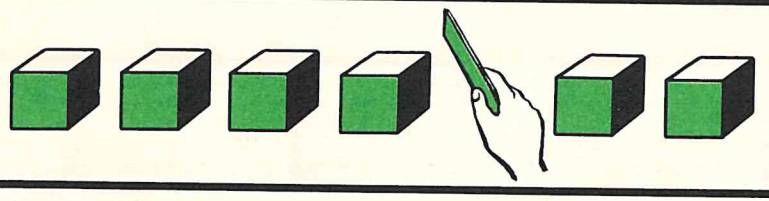
6 = ? + ?



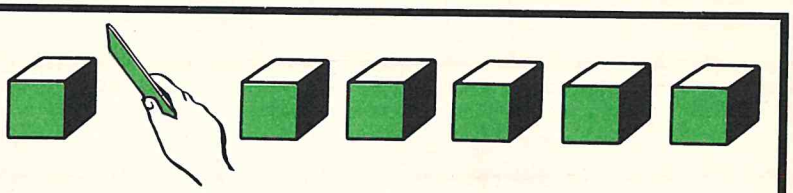
6 is 5 and ?



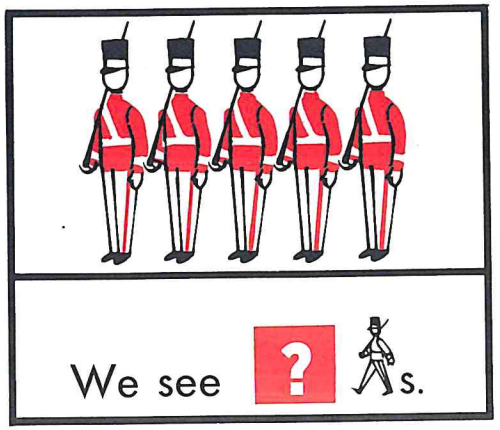
6 = ? + ?

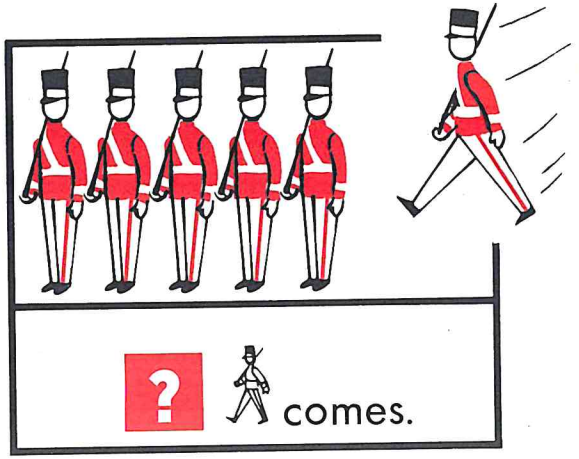


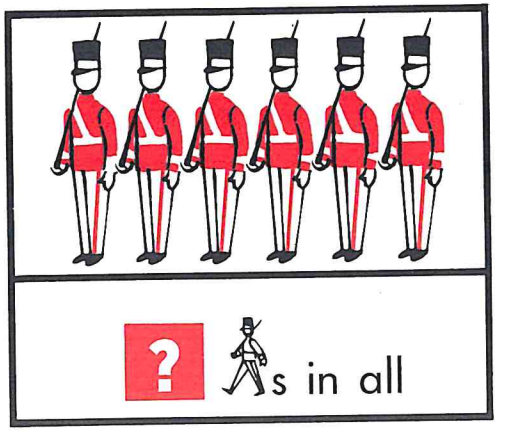
6 is ? and ?



6 = ? + ?

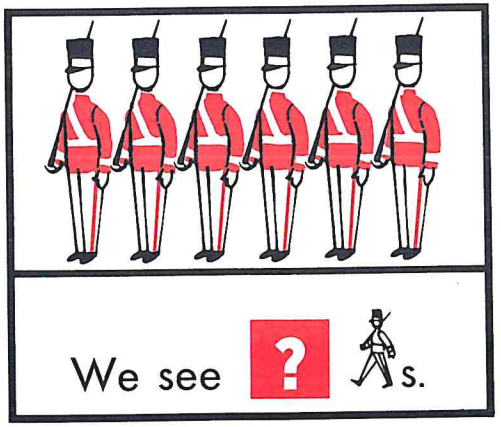


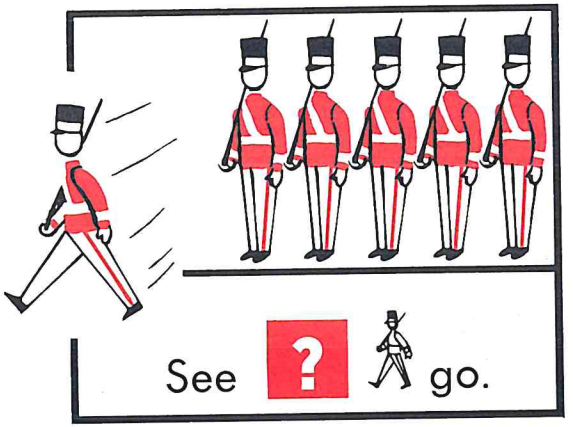


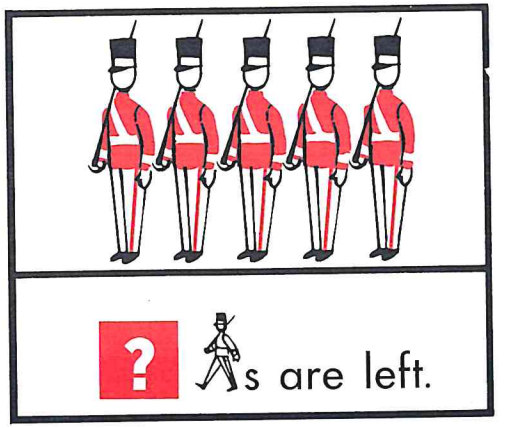


5 and 1 are ?

5 + 1 = ?

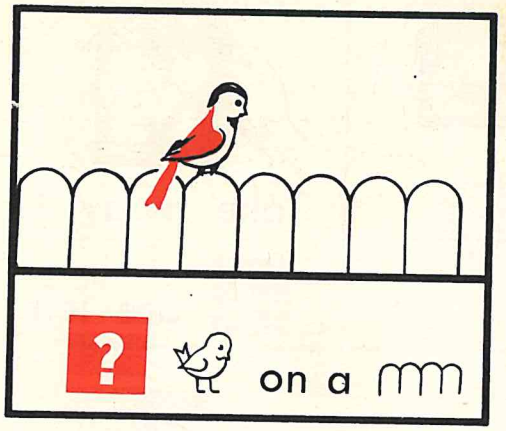


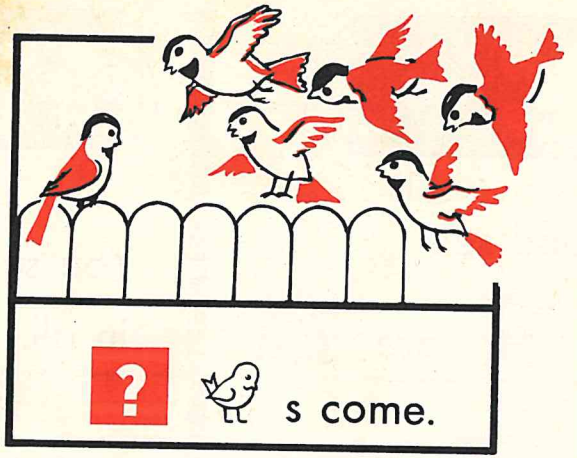


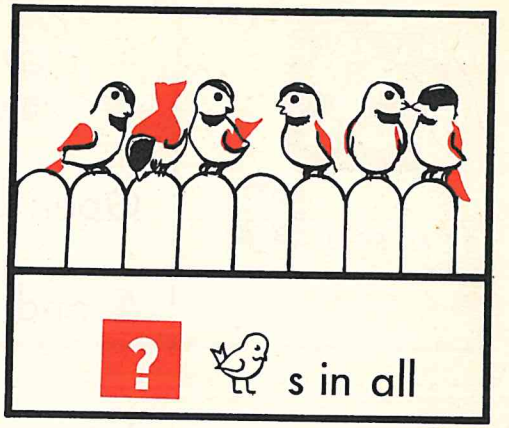


6 take away 1 are ?

6 − 1 = ?

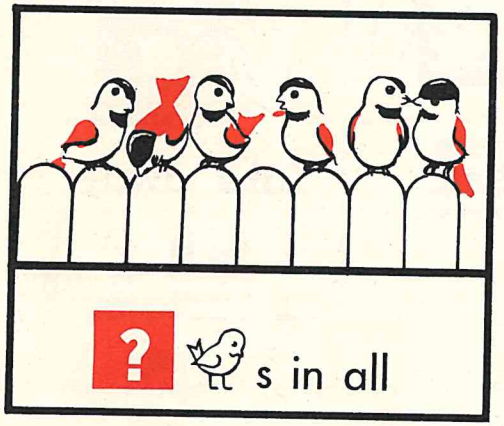


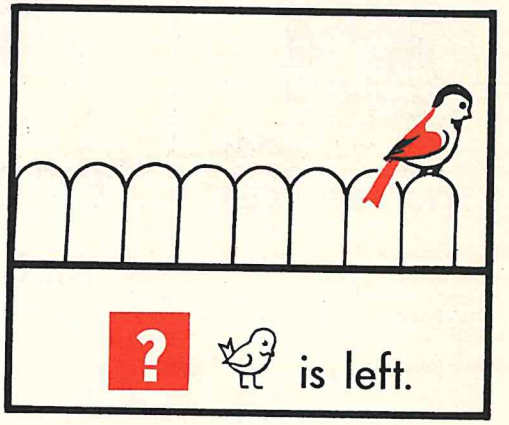




1 and 5 are ?

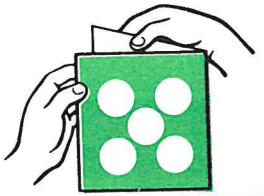
1 + 5 = ?



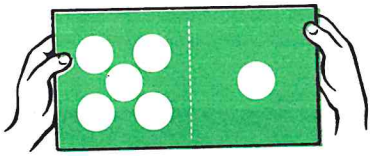


6 take away 5 is ?

6 − 5 = ?

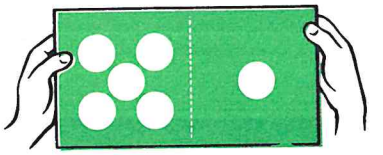


You see ?



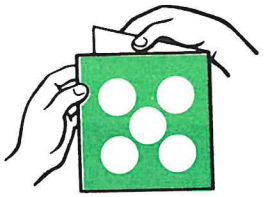
Open and see

5 and ? are ?



You see ?

in all.

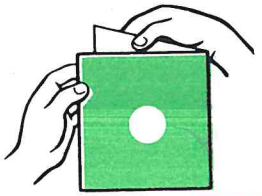


Take away 1.

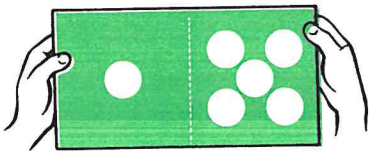
? are left.

5 and 1 are ?

6 take away 1 are ?

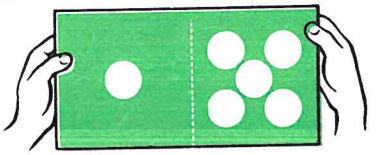


You see ?



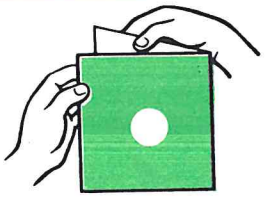
Open and see

1 and ? are ?



You see ?

in all.



Take away 5.

? is left.

1 and 5 are ?

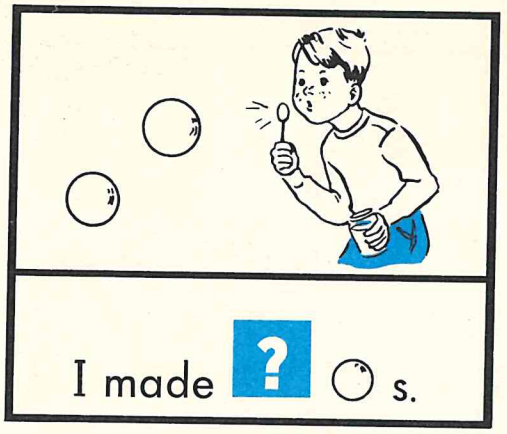
6 take away 5 is ?

5 + 1 = ?

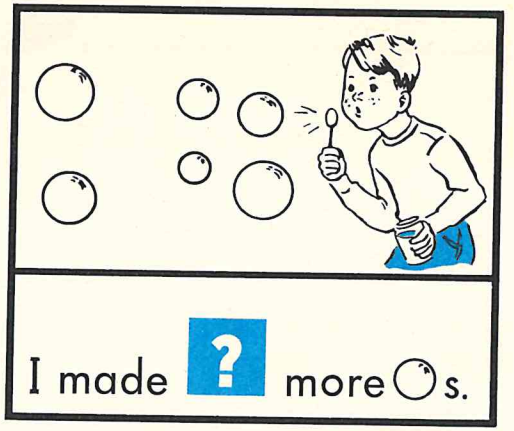
1 + 5 = ?

6 − 1 = ?

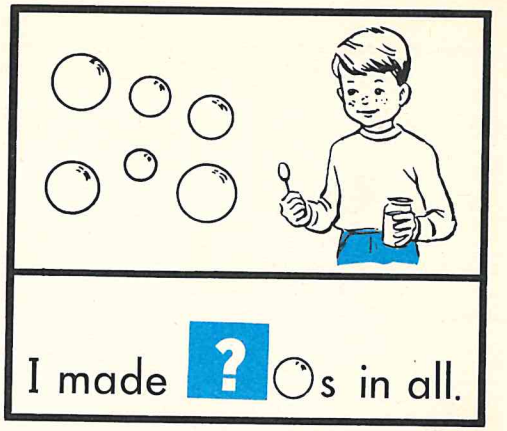
6 − 5 = ?



I made ? ○ s.



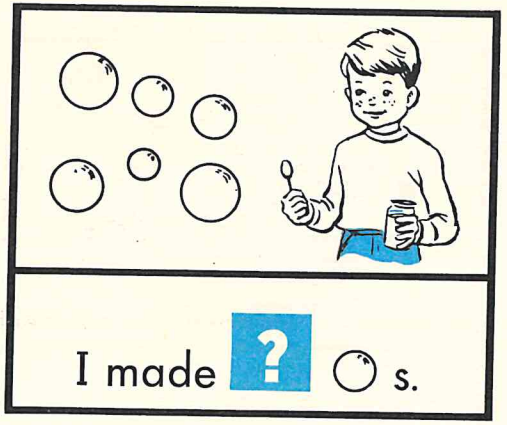
I made ? more ○ s.



I made ? ○ s in all.

2 and 4 are ?

2 + 4 = ?



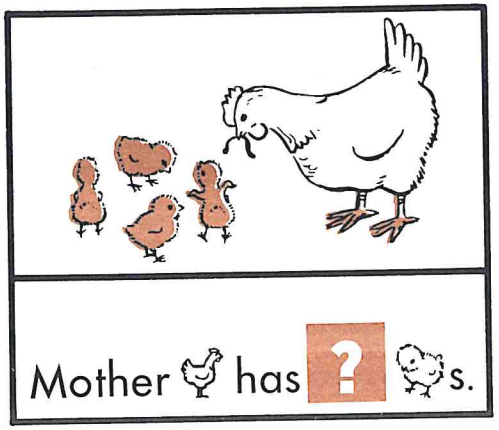
I made ? ○ s.

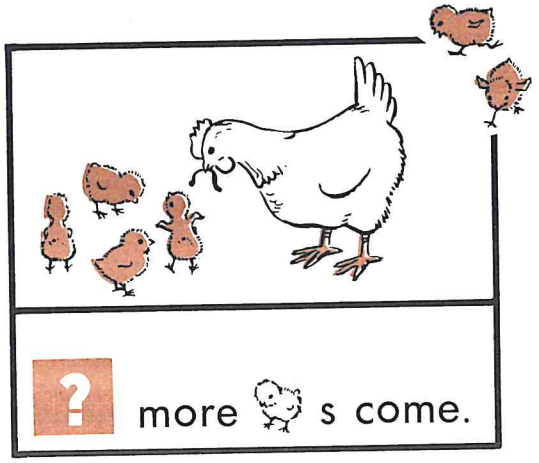
? ○ s have .

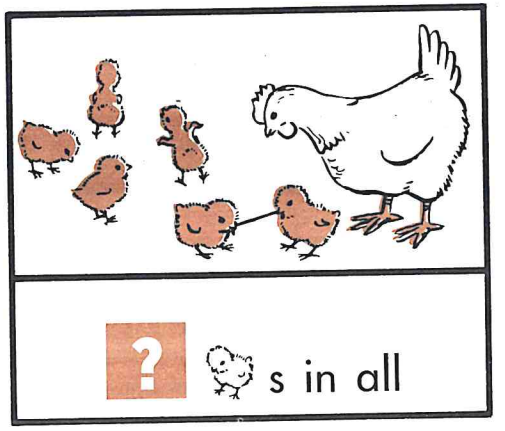
? ○ s are left.

6 take away 4 are ?

6 − 4 = ?

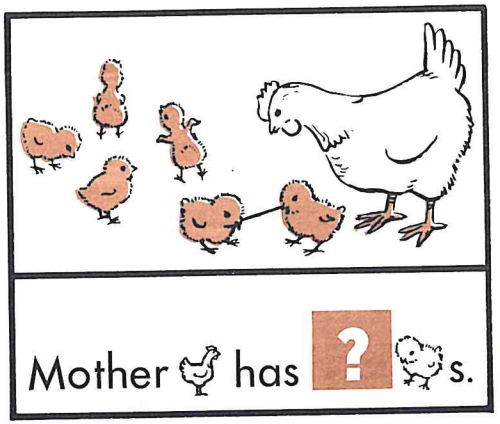


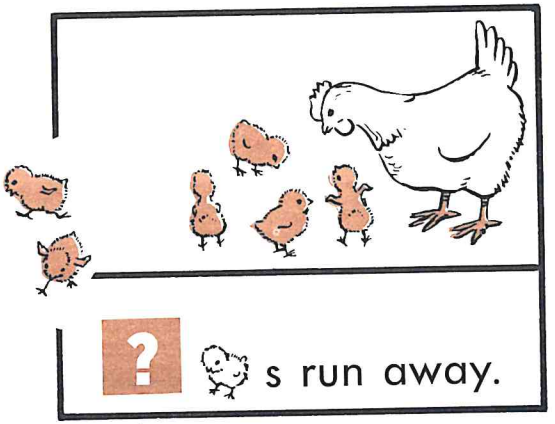


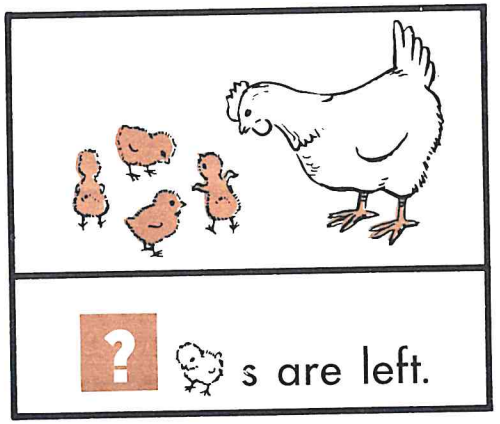


4 and 2 are ?

4 + 2 = ?

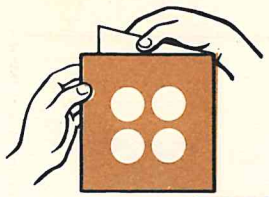




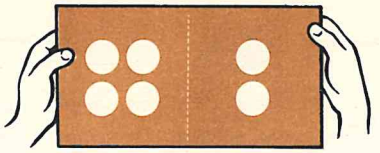


6 take away 2 are ?

6 − 2 = ?

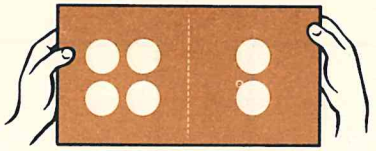


You see ?



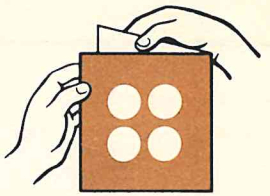
Open and see

4 and ? are ?



You see ?

in all.

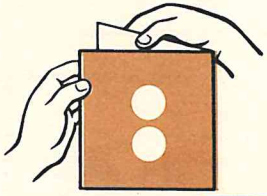


Take away 2.

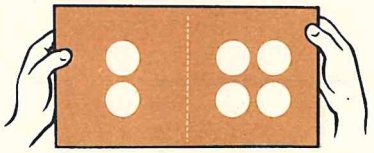
? are left.

4 and 2 are ?

6 take away 2 are ?

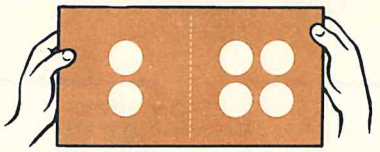


You see ?



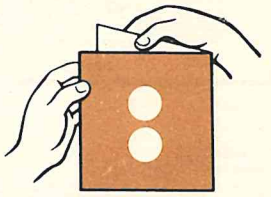
Open and see

2 and ? are ?



You see ?

in all.



Take away 4.

? are left.

2 and 4 are ?

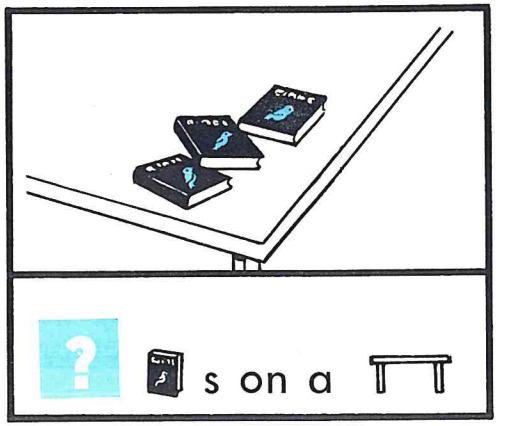
6 take away 4 are ?

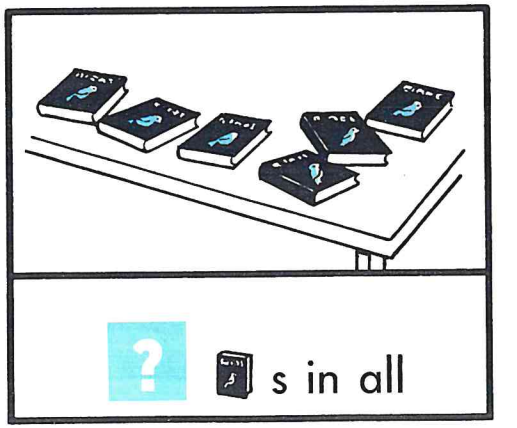
4 + 2 = ?

2 + 4 = ?

6 − 2 = ?

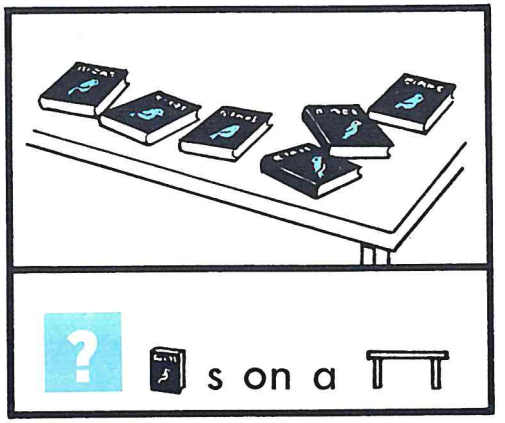
6 − 4 = ?

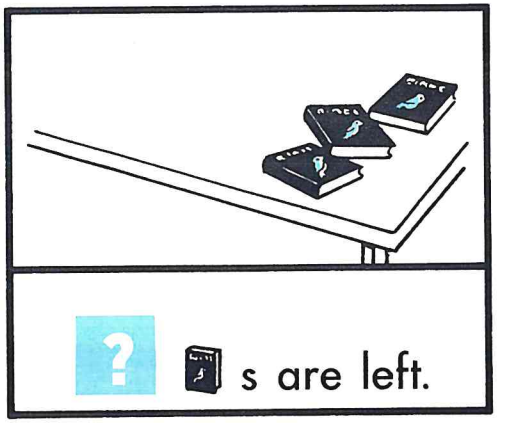




3 and 3 are ?

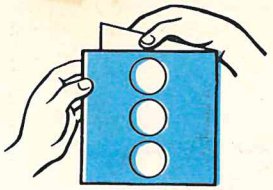
3 + 3 = ?



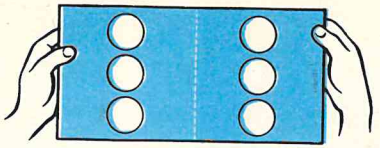


6 take away 3 are ?

6 − 3 = ?

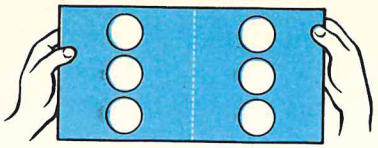


You see ?



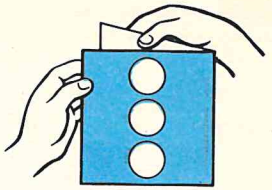
Open and see

3 and ? are ?



You see ?

in all.



Take away 3.

? are left.

3 and 3 are ?

6 take away 3 are ?

3+3 =

2+2 =

1+4 =

5+1 =

1+3 =

2+4 =

3+2 =?

6−3 =?

4−2 =

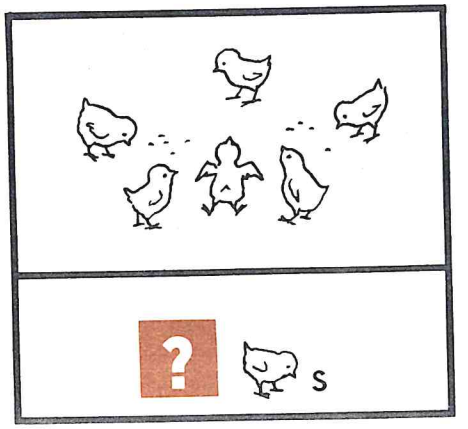
5−1 =

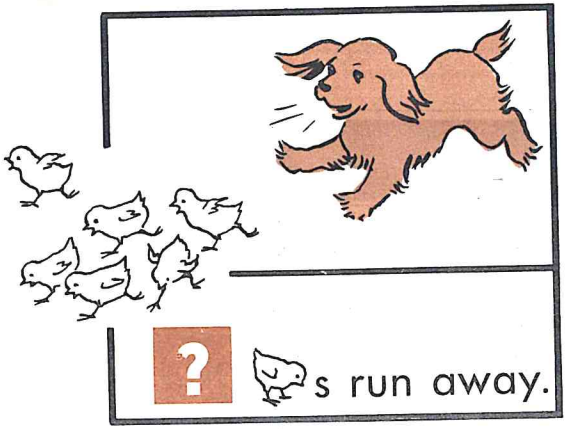
6−5 =

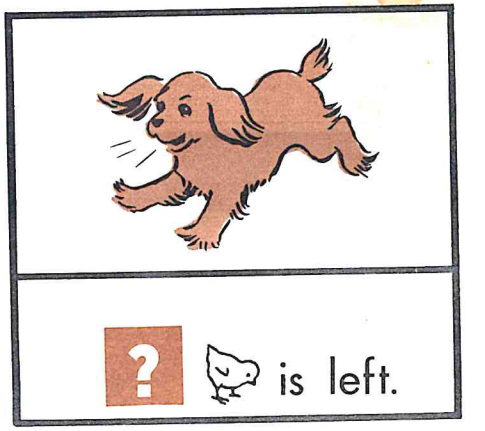
4−1 =

6−2 =

5−3 =



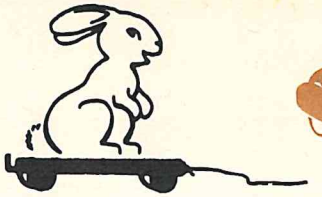


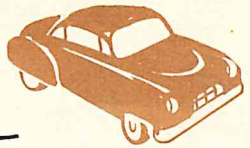


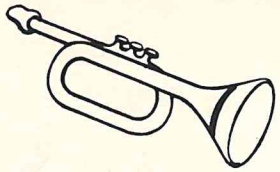
6 take away 6 is ?

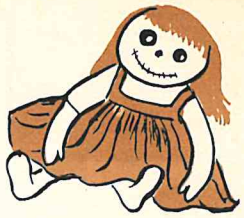
6 − 6 = ?

3 + 3 =	6 − 3 =	5 − 5 =	6 − 6 =
2 + 3 =	5 − 3 =	3 + 2 =	5 − 2 =
4 + 2 =	6 − 2 =	2 + 4 =	6 − 4 =
5 + 1 =	6 − 1 =	1 + 5 =	6 − 5 =
4 + 1 =	5 − 1 =	1 + 4 =	5 − 4 =









second toy ?

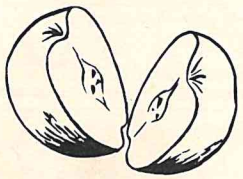
first toy ?

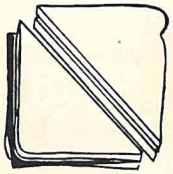
last toy ?

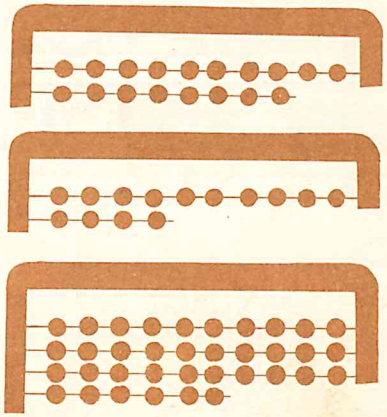
fourth toy ?

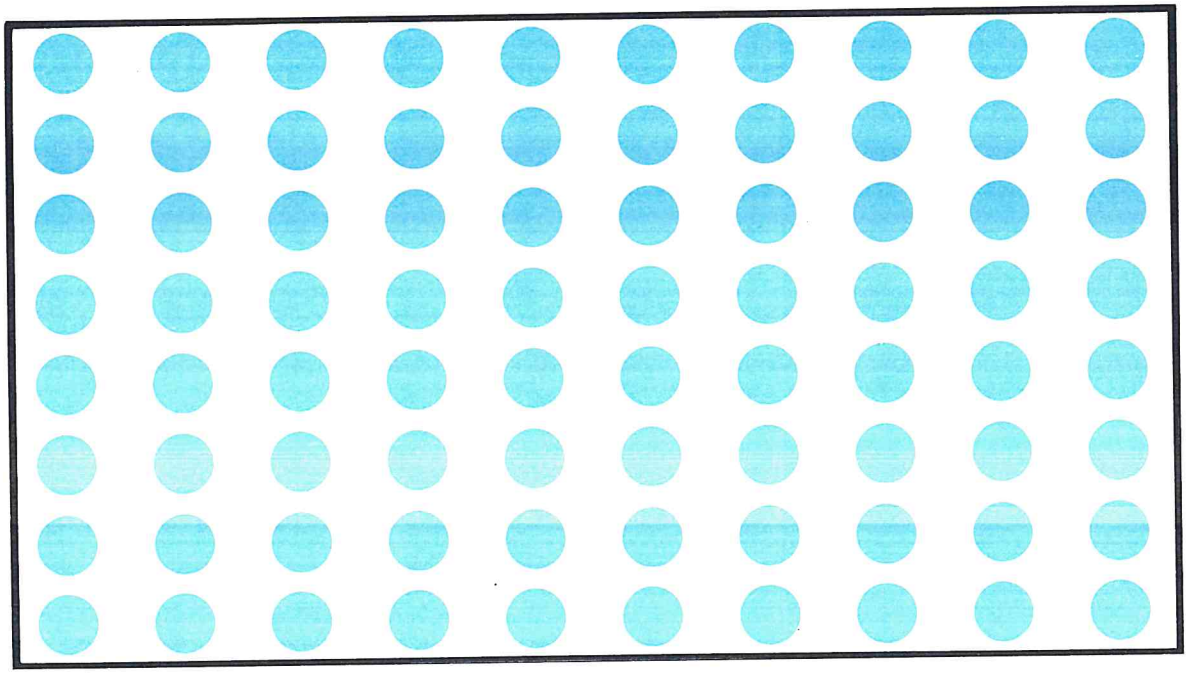
third toy ?

fifth toy ?



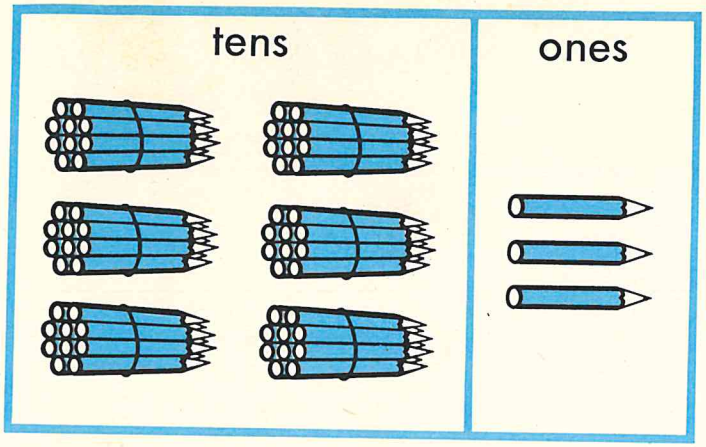


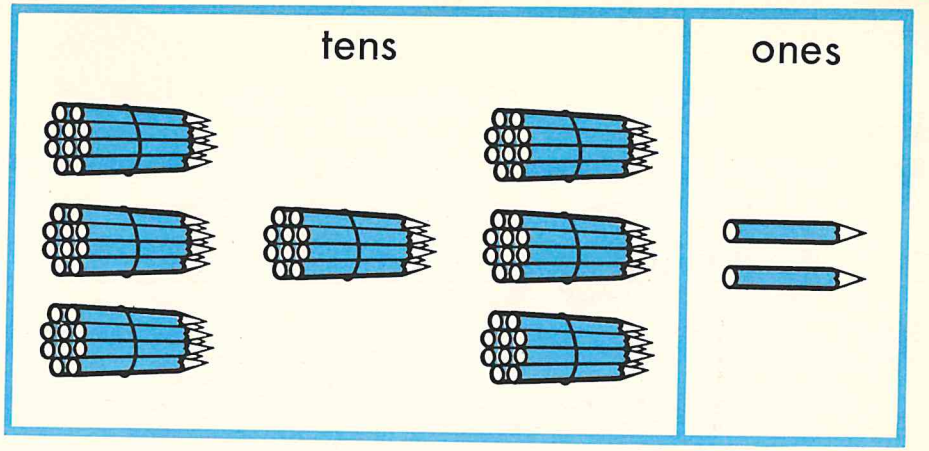




61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

64 73 67 70 80 63 76 78 69 61 74 77





? tens ? ones

? in all

? tens ? ones

? in all

60 is ? tens ? ones.

65 is ? tens ? ones.

67 is ? tens ? ones.

69 is ? tens ? ones.

70 is ? tens ? ones.

74 is ? tens ? ones.

76 is ? tens ? ones.

78 is ? tens ? ones.

1

ONE
CENT
UNITED STATES
OF AMERICA

2

ONE
CENT
UNITED STATES
OF AMERICA

MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

3

ONE
CENT
UNITED STATES
OF AMERICA

MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

ONE DIME

4

ONE DIME

ONE
CENT
UNITED STATES
OF AMERICA

ONE DIME

MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

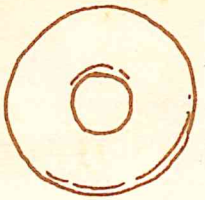
MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

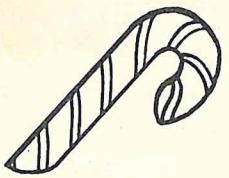
5

MONTICELLO
FIVE CENTS
UNITED STATES OF AMERICA

4 cents


3 cents

6 cents


8 cents

5 cents

2 cents

? cents

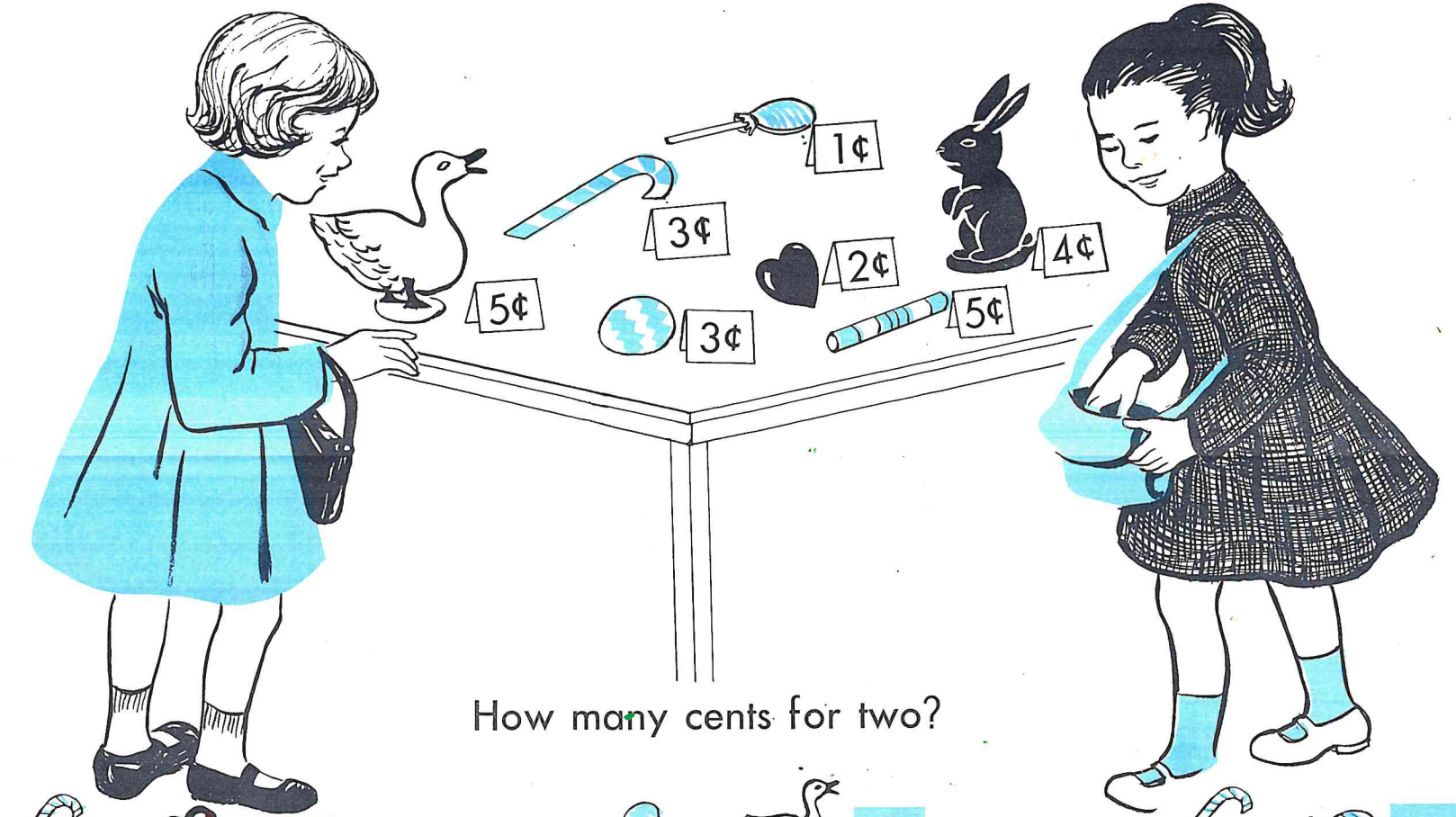
? cents

? cents

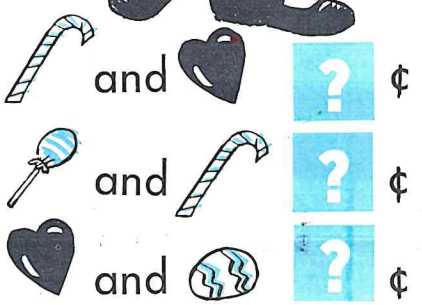
? cents

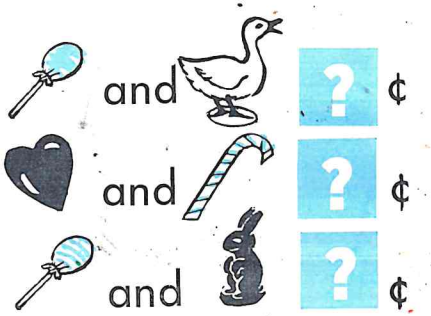
? cents

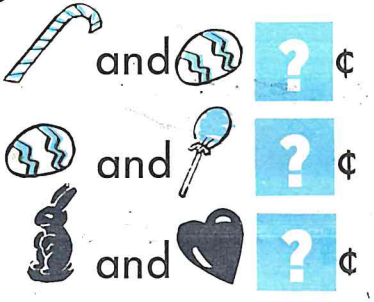
? cents



How many cents for two?







Which is more?

16 cents

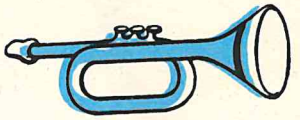
18 cents

19 cents

18 cents

15 cents

20 cents



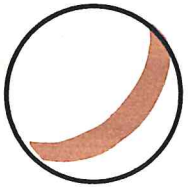
12 cents

10 cents

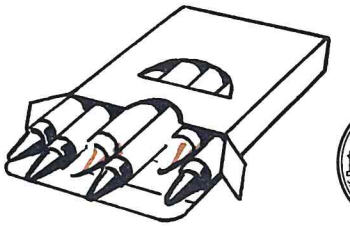
Which is most?

10 cents	14 cents	14 cents	12 cents	16 cents
13 cents	11 cents	12 cents	10 cents	19 cents
12 cents	13 cents	15 cents	11 cents	17 cents

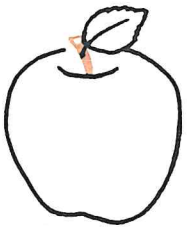
16 cents	13 cents	17 cents	13 cents	12 cents
19 cents	15 cents	12 cents	10 cents	14 cents
20 cents	**11 cents**	**18 cents**	**11 cents**	**13 cents**



8 cents



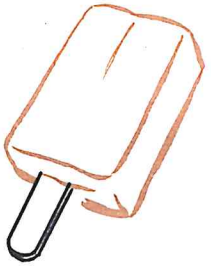
5 cents



6 cents

10 cents

9 cents

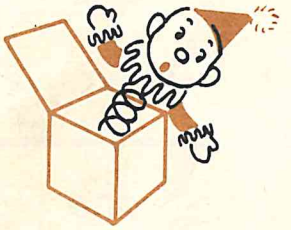


7 cents

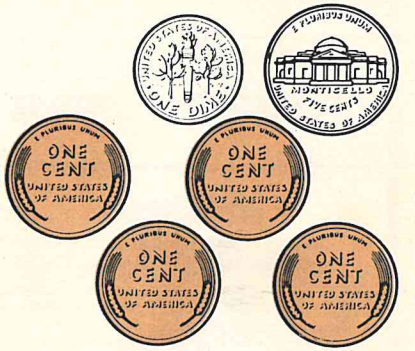
15 cents

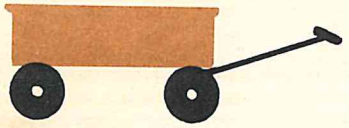
17 cents

16 cents

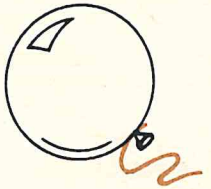


14 cents

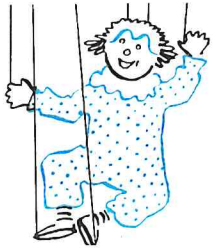




20 cents



18 cents

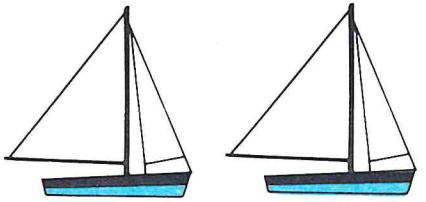


1

one

2

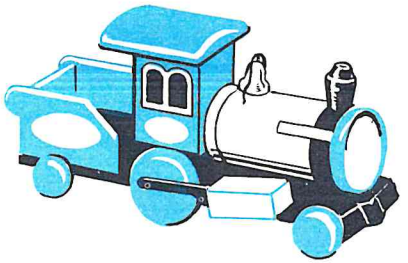
two



two

one

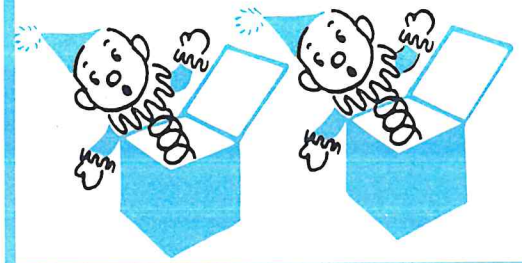
two



one

two

one



one

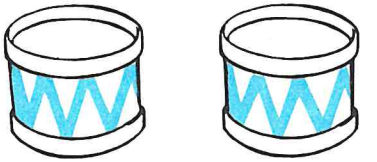
two

two

two

one

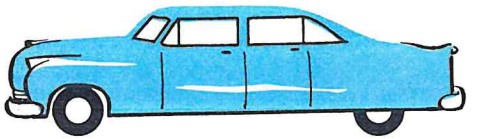
two



two

two

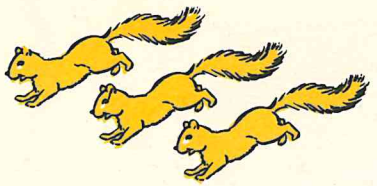
one



one

two

one

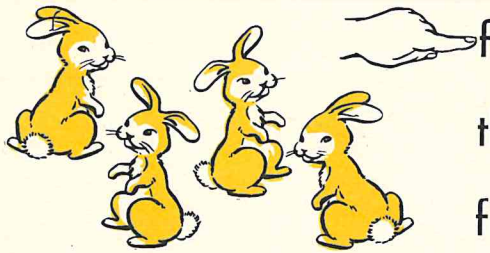


3

three

4

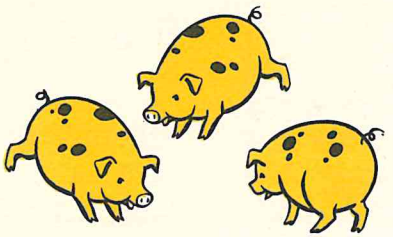
four



four

three

four



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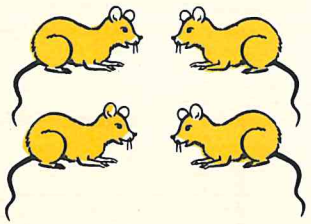
three



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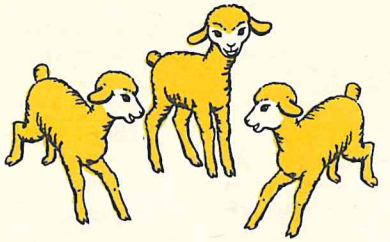
three

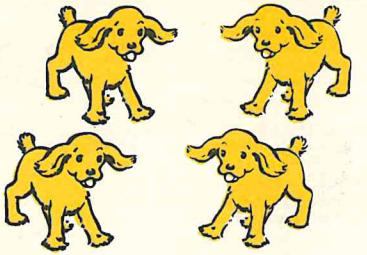
four



three

three

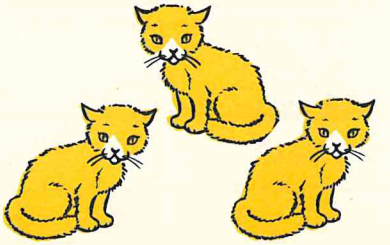
four



four

three

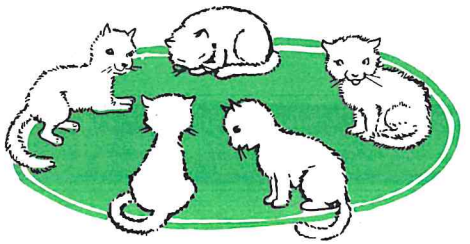
three



three

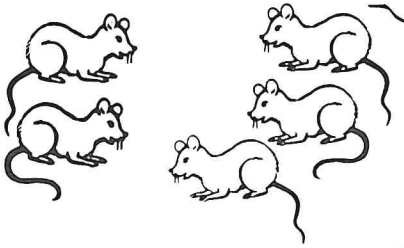
four

three



5

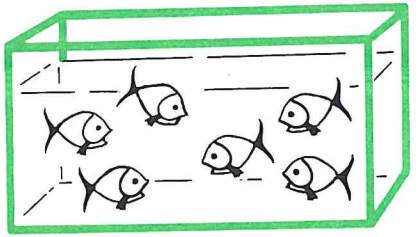
five



five

six

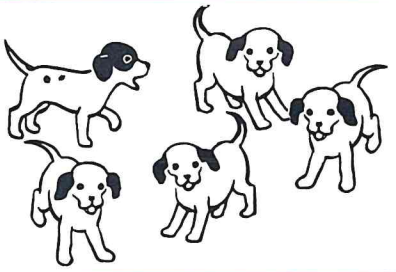
five



six

five

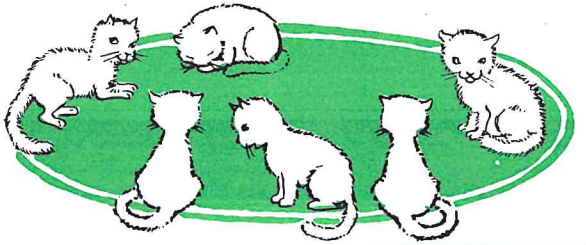
six



six

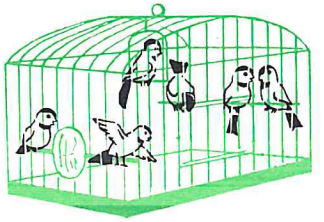
five

six



6

six



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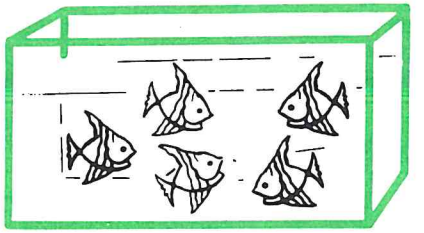
six

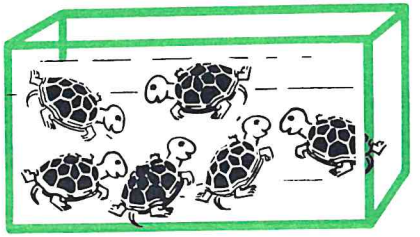
six



five

six

five

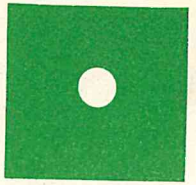


six

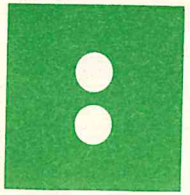
five

six

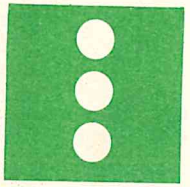
1 one



2 two



3 three



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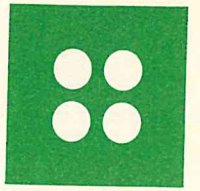
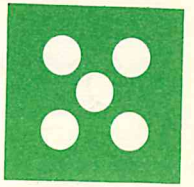
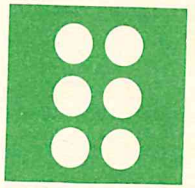


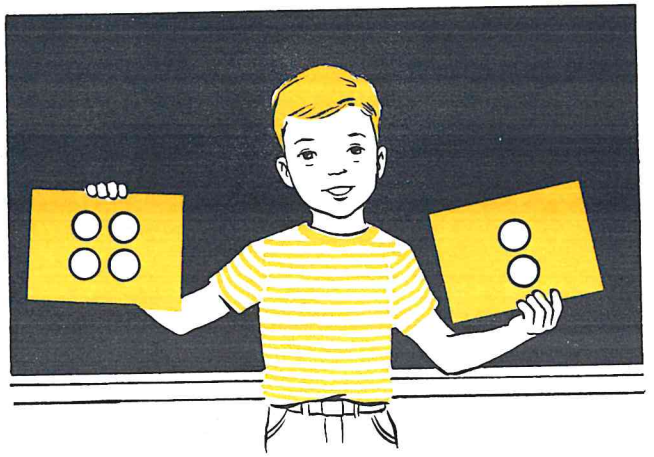
5 five

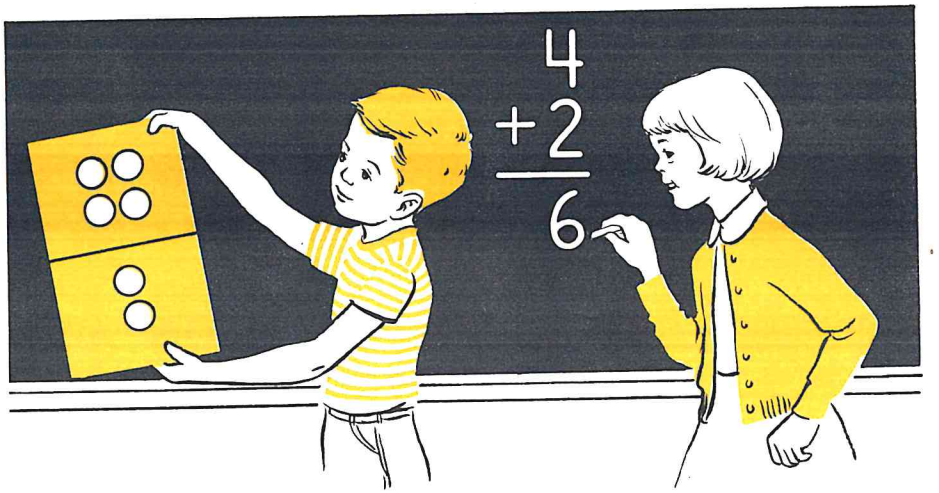


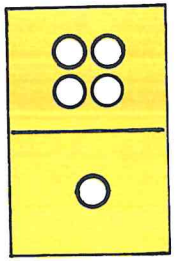
6 six



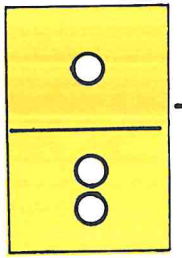
four	one	three	five	four	six
six	two	five	three	five	four
five	four	six	one	two	three



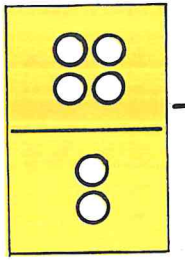




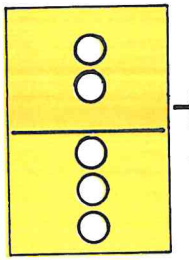
$$\begin{array}{r} 4 \\ +\,1 \\ \hline 5 \end{array}$$



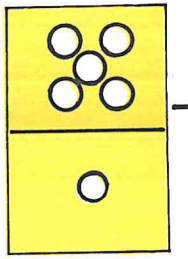
$$\begin{array}{r} 1 \\ +\,? \\ \hline ? \end{array}$$



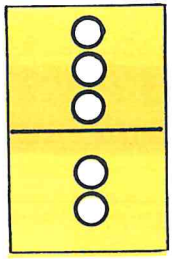
$$\begin{array}{r} 4 \\ +\,? \\ \hline ? \end{array}$$

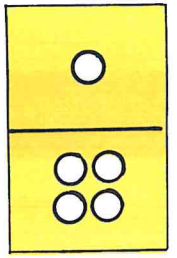


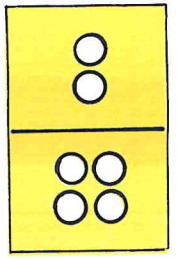
$$\begin{array}{r} 2 \\ +\,? \\ \hline ? \end{array}$$

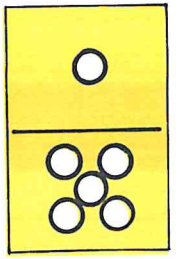


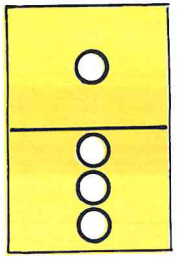
$$\begin{array}{r} 5 \\ +\,? \\ \hline ? \end{array}$$

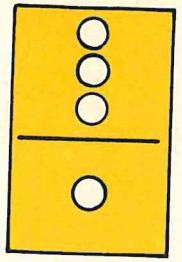




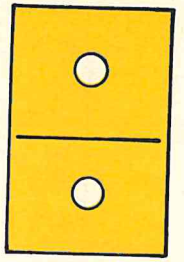




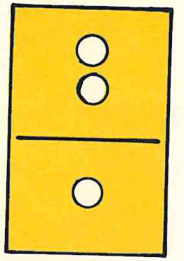




$$\begin{array}{r} 3 \\ +\ 1 \\ \hline 4 \end{array}$$



$$\begin{array}{r} \square \\ +\ \square \\ \hline \square \end{array}$$



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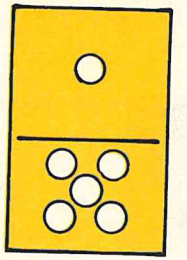

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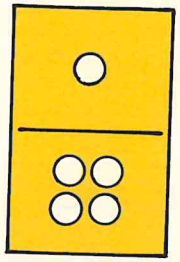

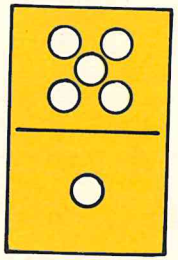

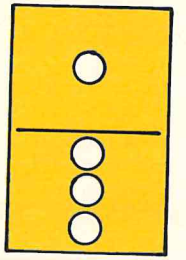

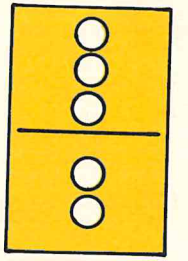

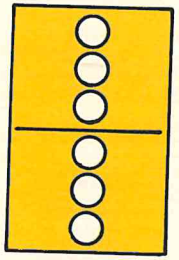

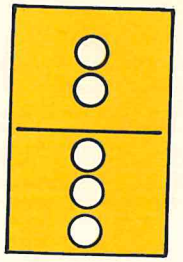

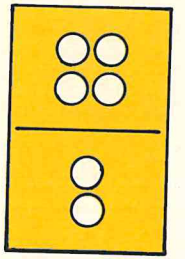

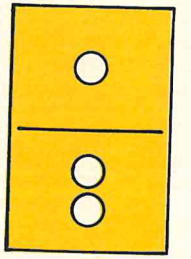

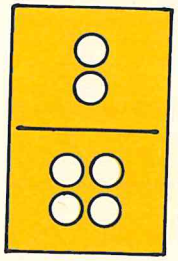

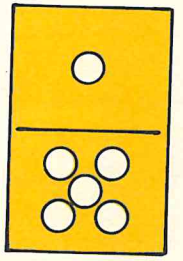

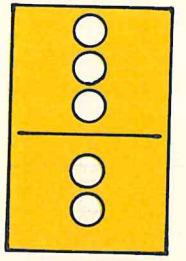

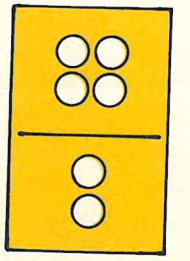

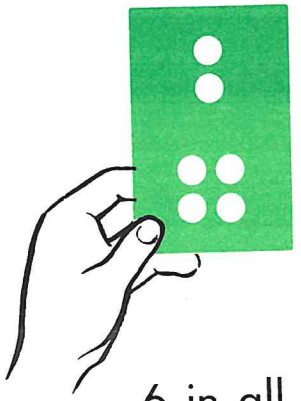

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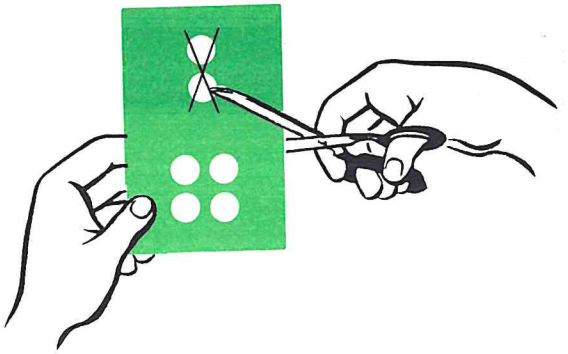
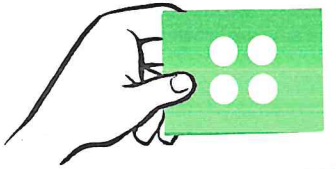
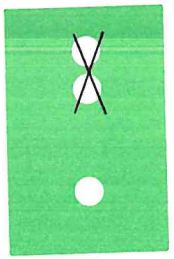


Take away 2.

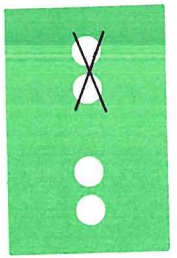
$$\begin{array}{r} 6 \\ -\,2 \\ \hline 4 \end{array}$$



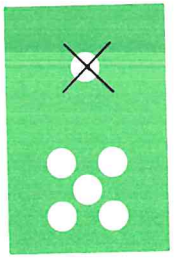
4 are left.



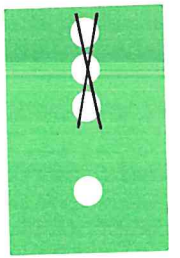
$$\begin{array}{r} 3 \\ -\,2 \\ \hline 1 \end{array}$$



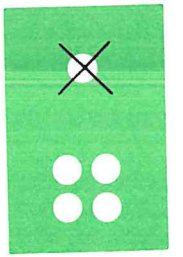
$$\begin{array}{r} 4 \\ -\,2 \\ \hline ? \end{array}$$



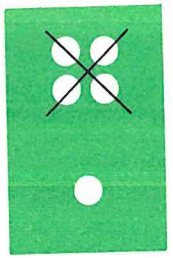
$$\begin{array}{r} 6 \\ -\,1 \\ \hline ? \end{array}$$



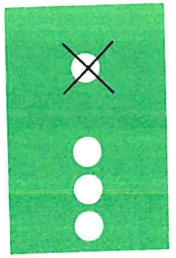
$$\begin{array}{r} 4 \\ -\,3 \\ \hline ? \end{array}$$



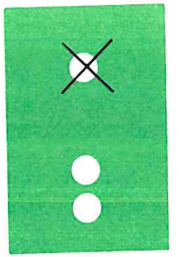
$$\begin{array}{r} 5 \\ -\,1 \\ \hline ? \end{array}$$



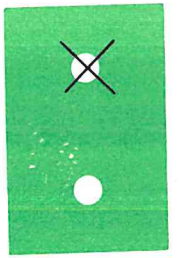
$$\begin{array}{r} 5 \\ -\,4 \\ \hline \end{array}$$



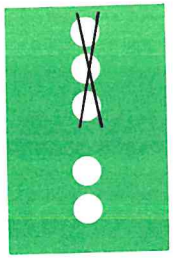
$$\begin{array}{r} 4 \\ -\,1 \\ \hline \end{array}$$



$$\begin{array}{r} 3 \\ -\,1 \\ \hline \end{array}$$



$$\begin{array}{r} 2 \\ -\,1 \\ \hline \end{array}$$



$$\begin{array}{r} 5 \\ -\,3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -\,3 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 5 \\ -\,? \\ \hline ? \end{array}$$

$$\begin{array}{r} 5 \\ -\,? \\ \hline ? \end{array}$$

$$\begin{array}{r} 1 \\ -\,? \\ \hline ? \end{array}$$

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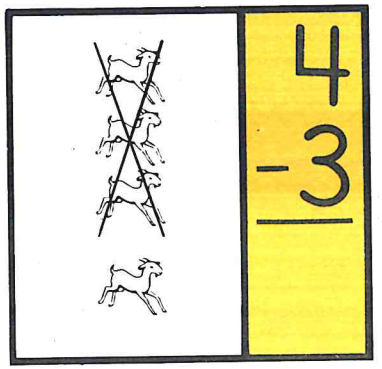
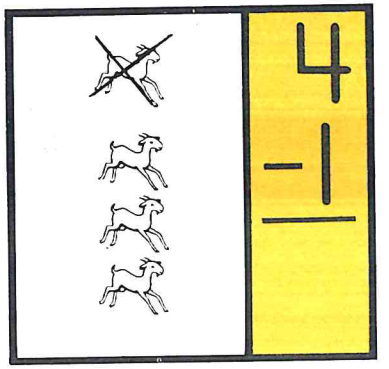
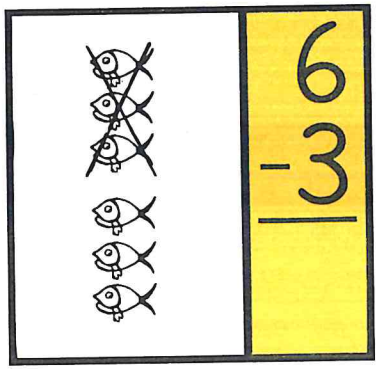
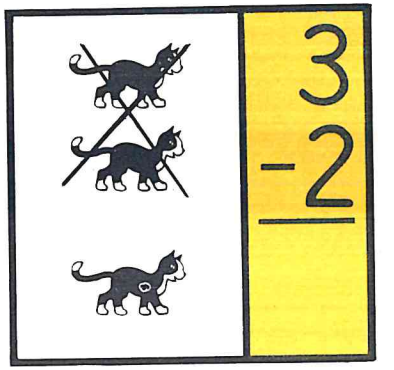
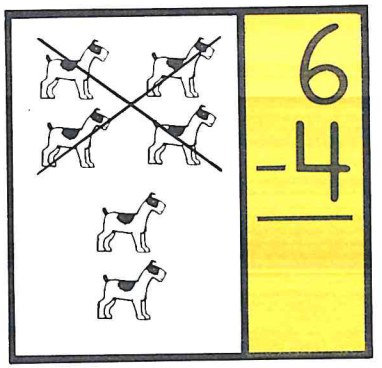
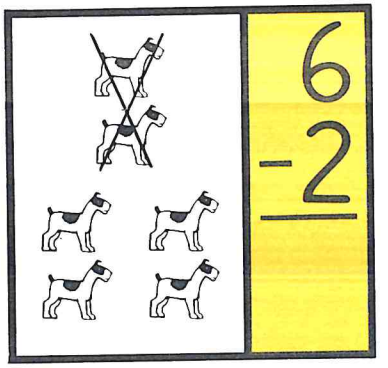


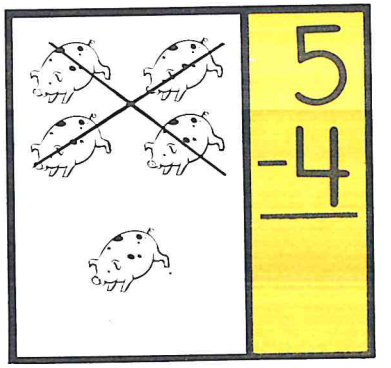


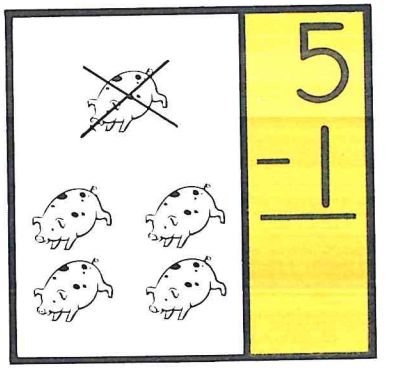


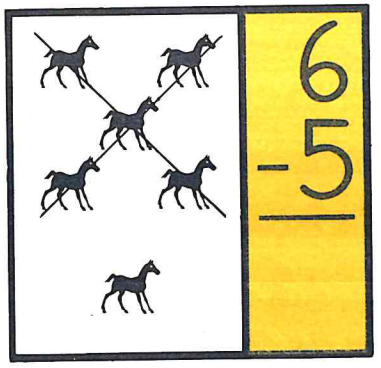






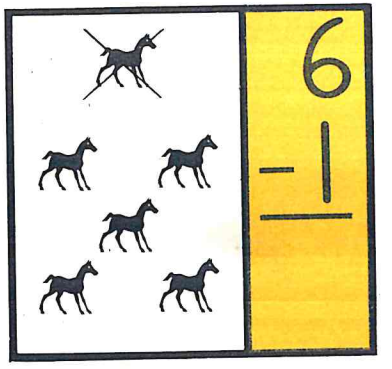






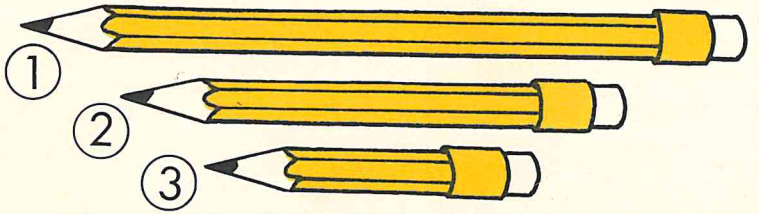
$$\begin{array}{rrrrrr} 4 & 6 & 5 & 6 & 4 & 6 \\ -1 & -4 & -1 & -2 & -3 & -5 \\ \hline \end{array}$$

$$\begin{array}{rrrrrr} 5 & 6 & 3 & 6 & 3 & 6 \\ -4 & -1 & -1 & -3 & -2 & -6 \\ \hline \end{array}$$

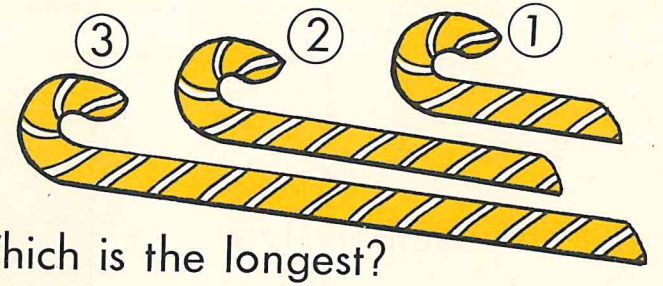


shortest

longest

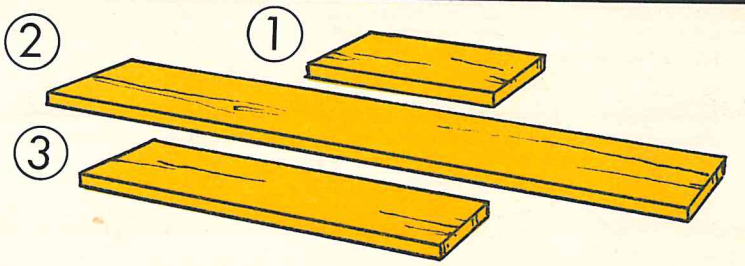


Which is the shortest?
Which is the longest?

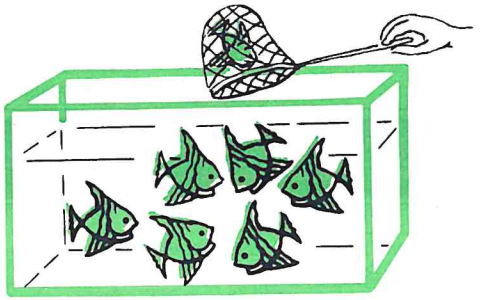


Which is the longest?
Which is the shortest?

Which is the shortest?
Which is the longest?



Which is the longest?
Which is the shortest?



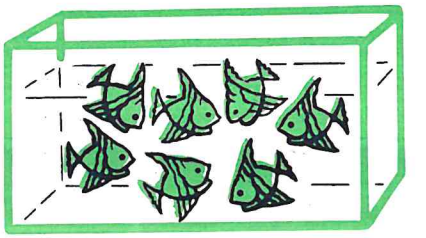
? in the

I bring ? more.

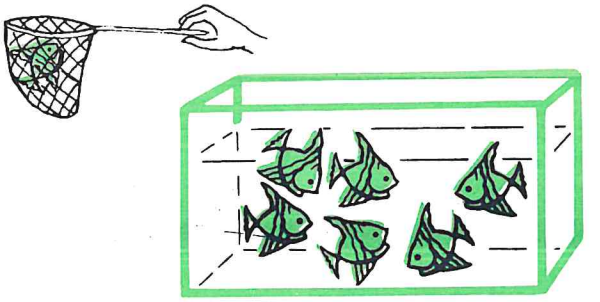
Read the number story.

? in all

$$\begin{array}{r} 6 \\ +\,1 \\ \hline 7 \end{array}$$



? in this



I take away ? .

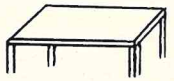
Cover the I take.

Read the number story.

? are left.

$$\begin{array}{r} 7 \\ -\,1 \\ \hline 6 \end{array}$$

●●● ●	$\begin{array}{r} 6 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -\,1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -\,1 \\ \hline \end{array}$
●●● ●●	$\begin{array}{r} 3 \\ +\,2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +\,3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -\,2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -\,3 \\ \hline \end{array}$

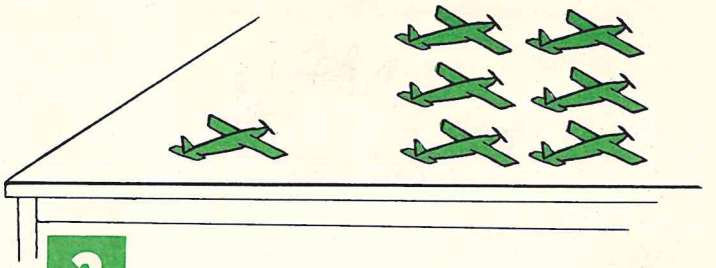
? ✈ on the 

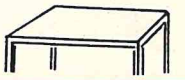
I bring ? ✈ s.

Read the number story.

? ✈ s in all

$$\begin{array}{r} 1 \\ +\,6 \\ \hline 7 \end{array}$$



? ✈ s in all on the 

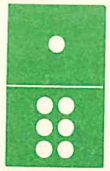
I take away ? ✈ s.

Cover the ✈ s I take.

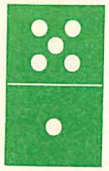
Read the number story.

? ✈ is left.

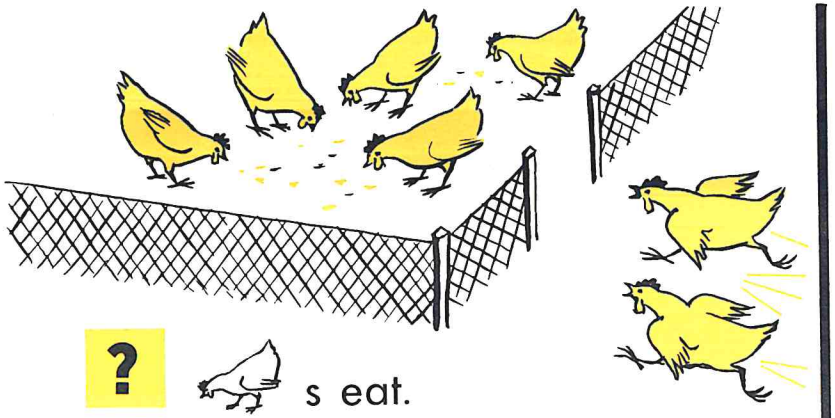
$$\begin{array}{r} 7 \\ -\,6 \\ \hline 1 \end{array}$$



$$\begin{array}{rrrr} 1 & 6 & 7 & 7 \\ +\,6 & +\,1 & -\,6 & -\,1 \\ \hline \end{array}$$



$$\begin{array}{rrrr} 5 & 1 & 6 & 6 \\ +\,1 & +\,5 & -\,1 & -\,5 \\ \hline \end{array}$$



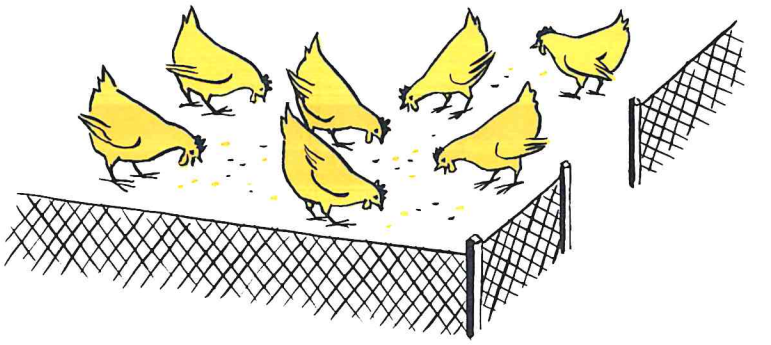
? s eat.

? s come.

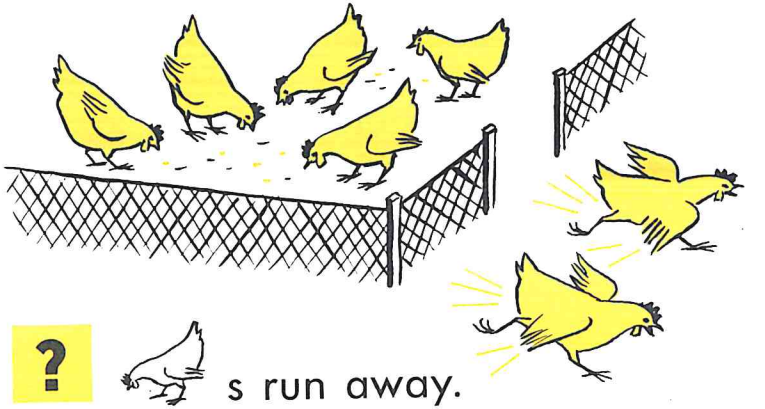
Read the number story.

? s in all

$$\begin{array}{r} 5 \\ +\,2 \\ \hline 7 \end{array}$$



? s in all



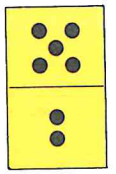
? s run away.

Cover the s that go.

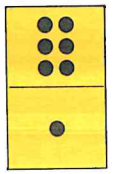
Read the number story.

? s are left.

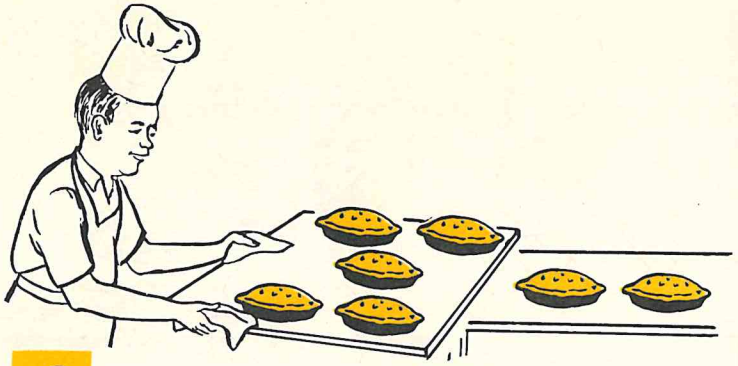
$$\begin{array}{r} 7 \\ -\,2 \\ \hline 5 \end{array}$$



$$\begin{array}{r} 5 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,2 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,2 \\ \hline \end{array}$$



$$\begin{array}{r} 6 \\ +\,1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +\,6 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,6 \\ \hline \end{array}$$



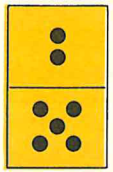
? s on the

The brings ? s.

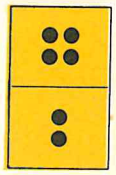
Read the number story.

? s in all

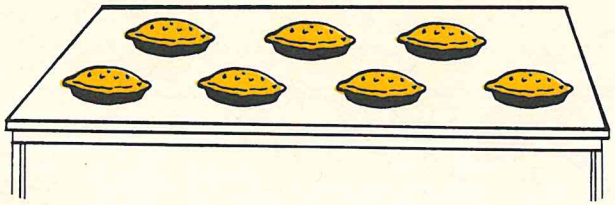
$$\begin{array}{r} 2 \\ +\,5 \\ \hline 7 \end{array}$$

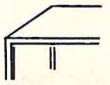


$$\begin{array}{r} 2 \\ +\,5 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,5 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,2 \\ \hline \end{array}$$



$$\begin{array}{r} 4 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ +\,4 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -\,2 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -\,4 \\ \hline \end{array}$$



? s in all on the 

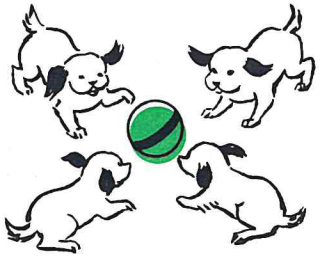
The takes away ? s.

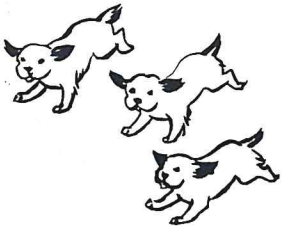
Cover the s he takes.

Read the number story.

? s are left.

$$\begin{array}{r} 7 \\ -\,5 \\ \hline 2 \end{array}$$





? s play with a .

? s come.

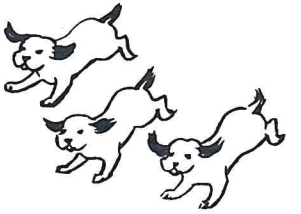
Read the number story.

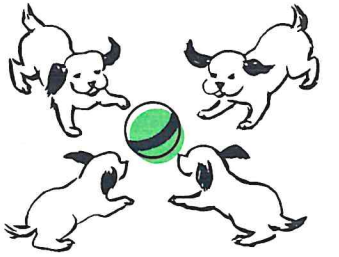
? s in all

$$\begin{array}{r} 4 \\ +\,3 \\ \hline 7 \end{array}$$

:: / ::	$\begin{array}{r} 4 \\ +\,3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -\,3 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ +\,3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -\,3 \\ \hline \end{array}$
::: / :::	$\begin{array}{r} 3 \\ +\,3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\,3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ +\,3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\,3 \\ \hline \end{array}$

? s play with a .





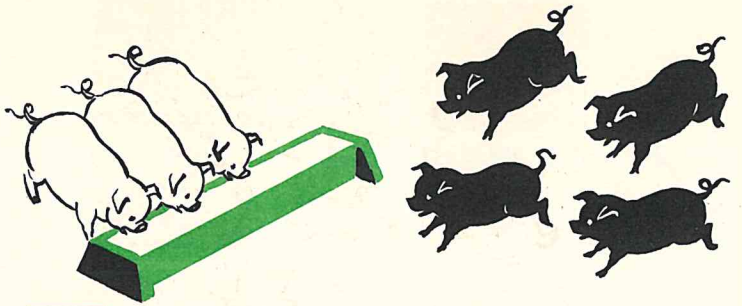
? s run away.

Cover the s that go.

Read the number story.

? s are left.

$$\begin{array}{r} 7 \\ -\,3 \\ \hline 4 \end{array}$$



? 🐷s eat.

? 🐷s come.

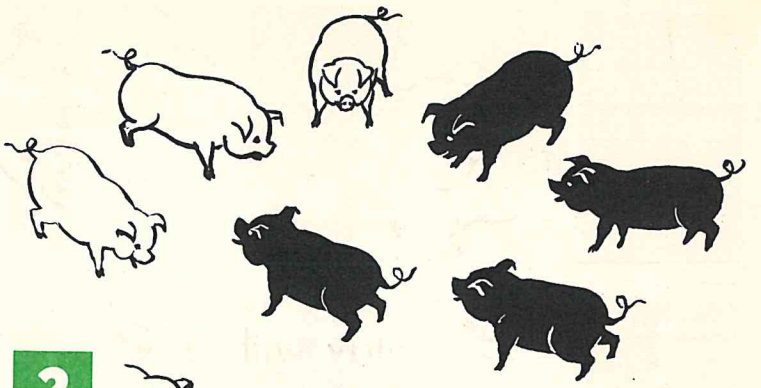
Read the number story.

? 🐷s in all

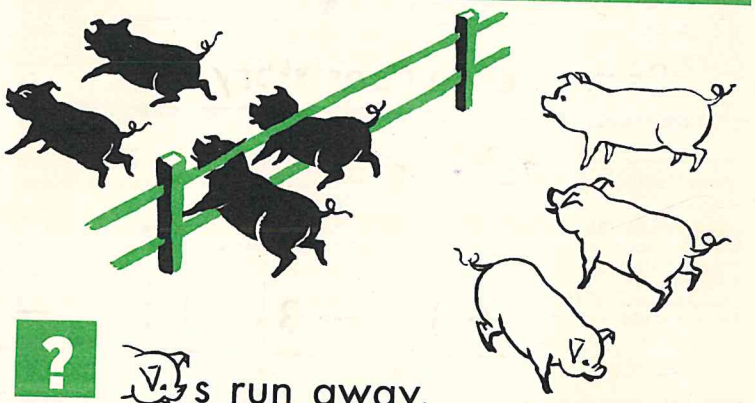
$$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$$

$$\begin{array}{rrrr} 3 & 4 & 7 & 7 \\ +4 & +3 & -4 & -3 \\ \hline & & & \end{array}$$

$$\begin{array}{rrrr} 4 & 1 & 5 & 5 \\ +1 & +4 & -1 & -4 \\ \hline & & & \end{array}$$



? 🐷s in all



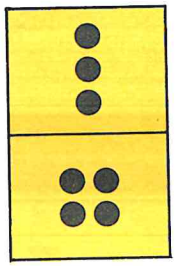
? 🐷s run away.

Cover the 🐷s that go.

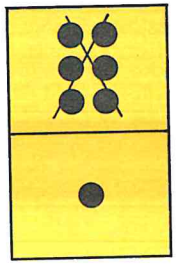
Read the number story.

? 🐷s are left.

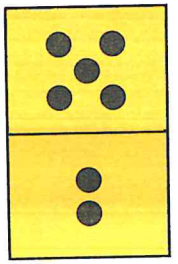
$$\begin{array}{r} 7 \\ -4 \\ \hline 3 \end{array}$$



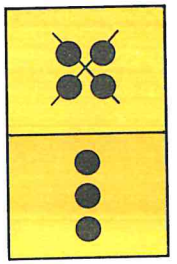
$$3 + 4 =$$



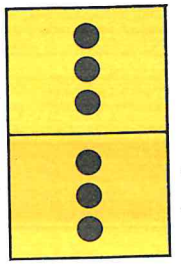
$$7 - 6 =$$



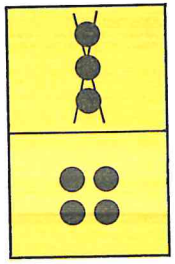
$$5 + 2 =$$



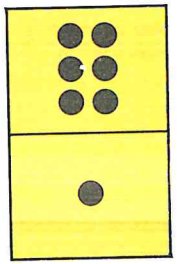
$$7 - 4 =$$



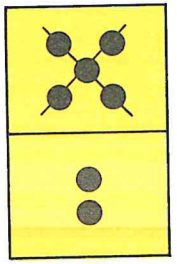
$$3 + 3 =$$



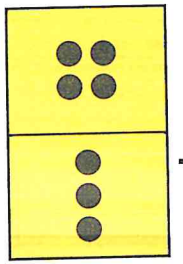
$$7 - 3 =$$



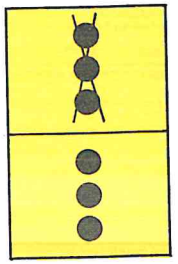
$$6 + 1 =$$



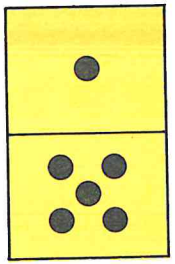
$$7 - 5 =$$



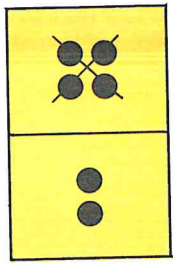
$$4 + 3 =$$



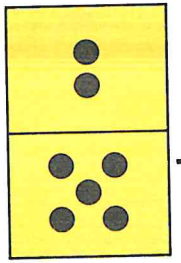
$$6 - 3 =$$



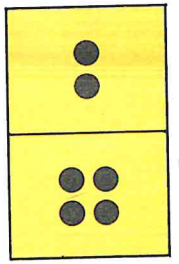
$$1 + 5 =$$



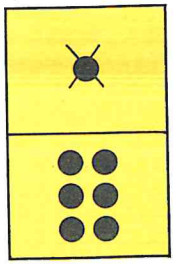
$$6 - 4 =$$



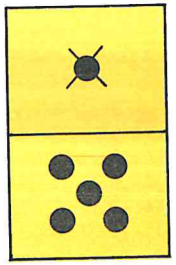
$$2 + 5 =$$



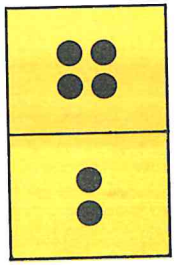
$$2 + 4 =$$



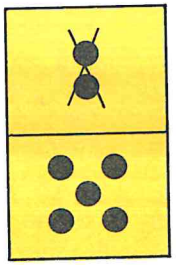
$$7 - 1 =$$



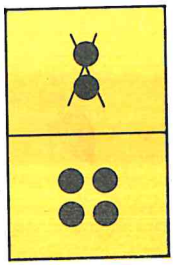
$$6 - 1 =$$



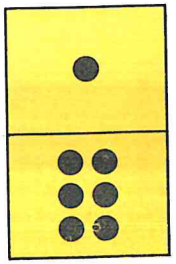
$$4 + 2 =$$



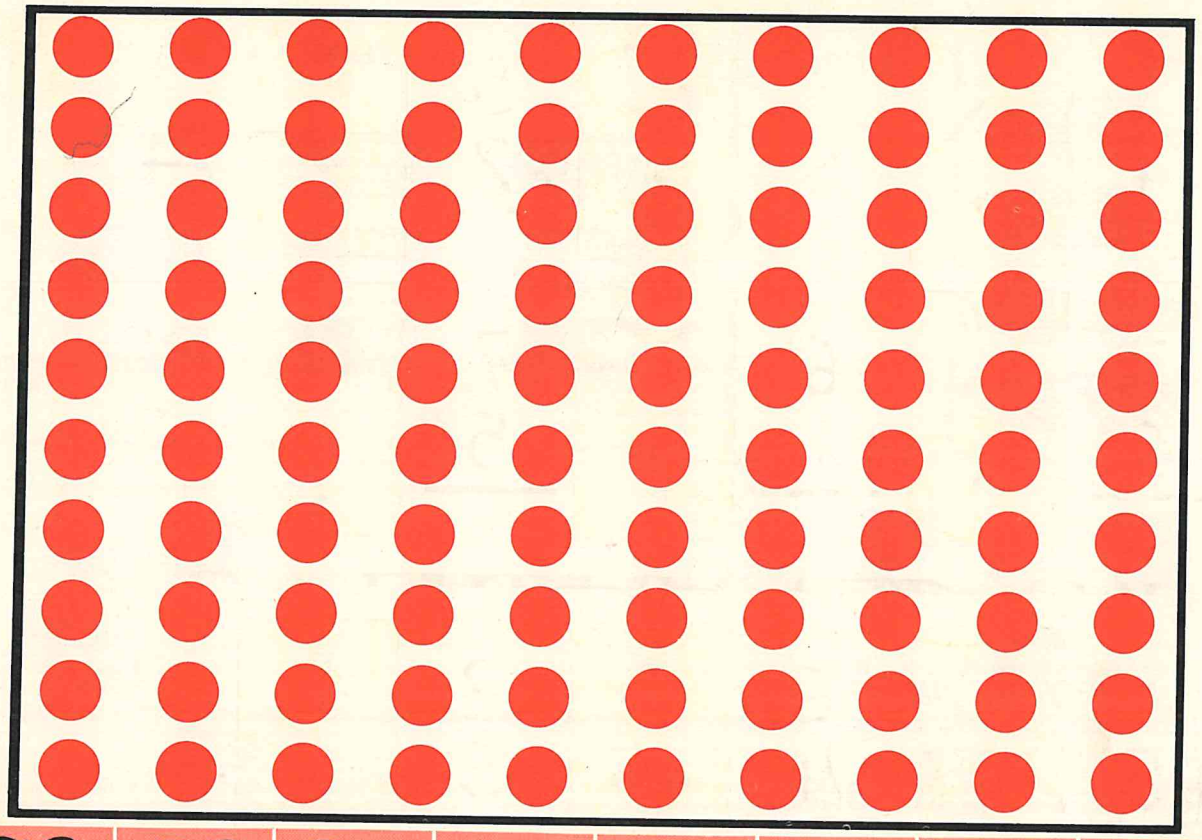
$$7 - 2 =$$



$$6 - 2 =$$

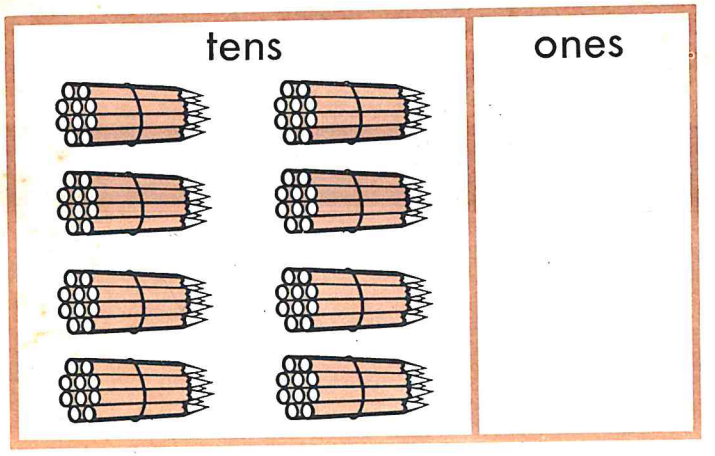


$$1 + 6 =$$



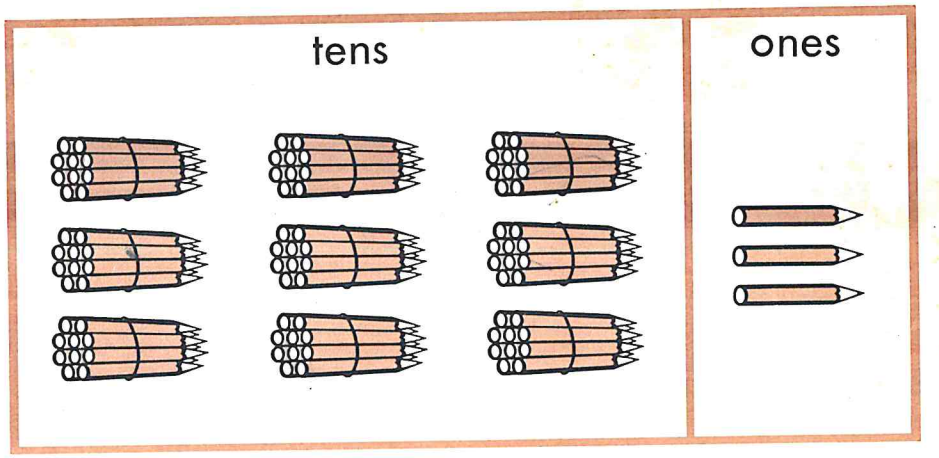
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

84 95 87 90 86 98 81 93 100



? tens ? ones

? in all



? tens ? ones

? in all

83 is ? tens ? ones.

89 is ? tens ? ones.

85 is ? tens ? ones.

86 is ? tens ? ones.

90 is ? tens ? ones.

98 is ? tens ? ones.

92 is ? tens ? ones.

97 is ? tens ? ones.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

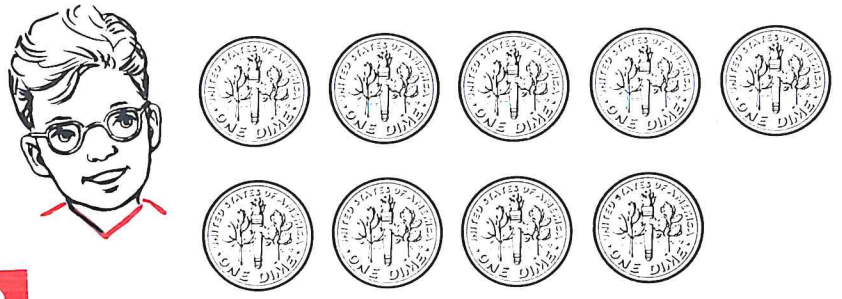
? cents

? cents

? cents

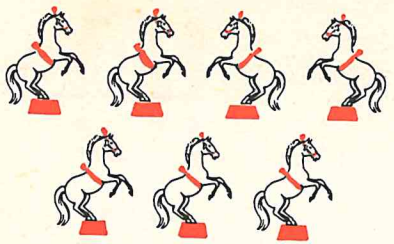
? cents

? cents



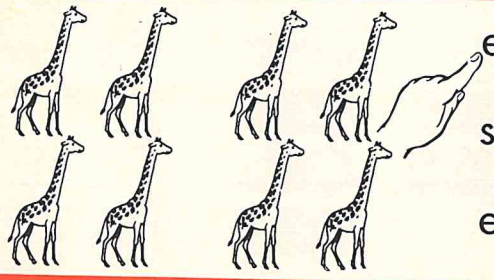
? cents

? cents



7

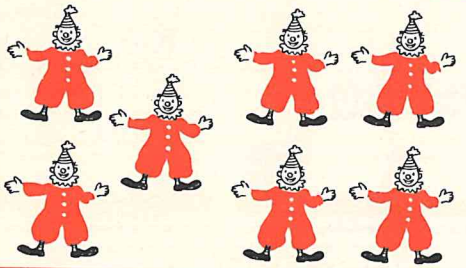
seven



eight

seven

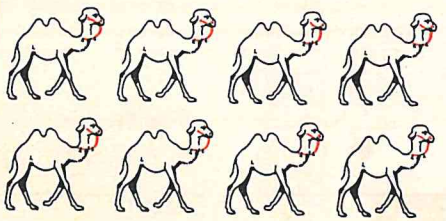
eight



seven

eight

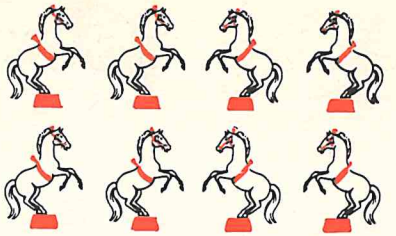
seven



seven

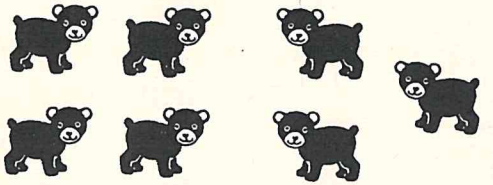
eight

eight



8

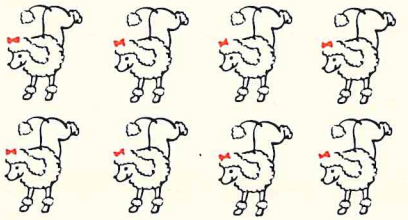
eight



seven

seven

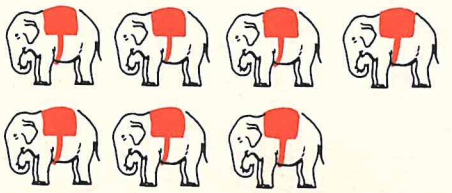
eight



eight

seven

seven



seven

eight

seven

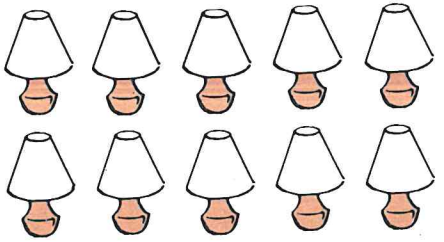
9

nine

nine

ten

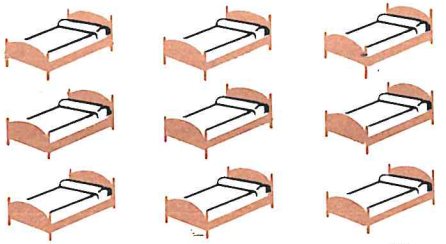
nine



ten

nine

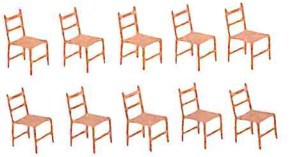
ten



nine

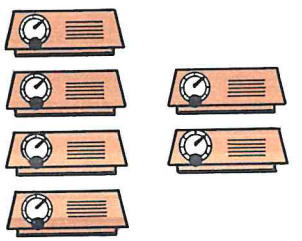
five

nine



10

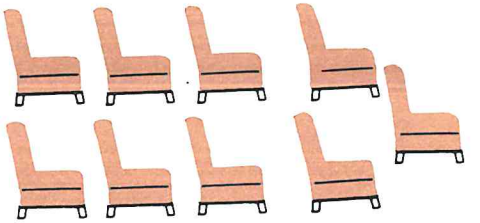
ten



nine

ten

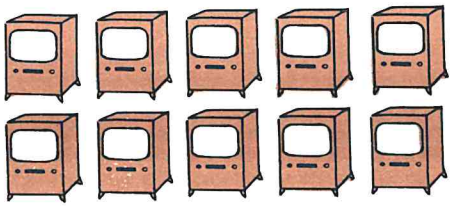
nine



ten

nine

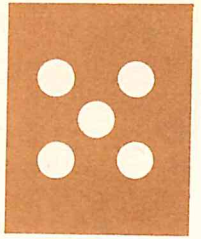
nine

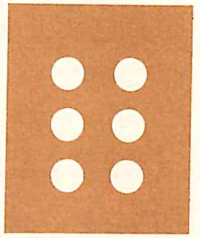


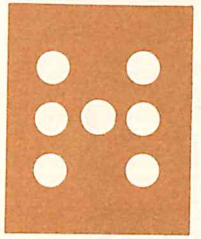
ten

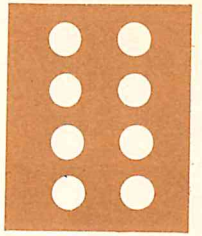
nine

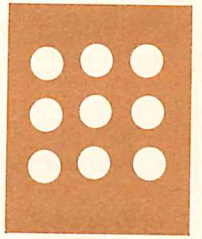
ten

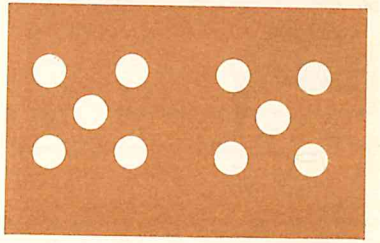
5 five 

6 six 

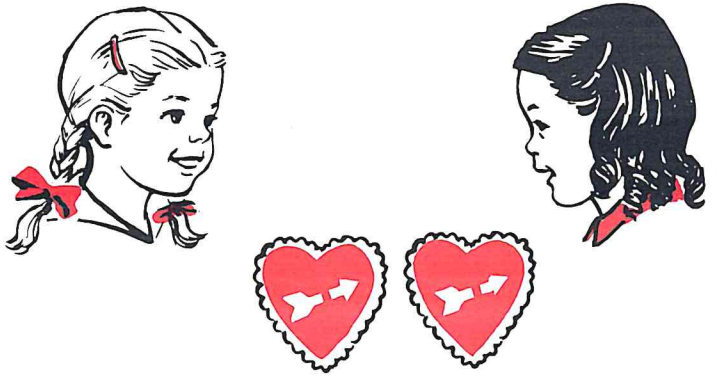
7 seven 

8 eight 

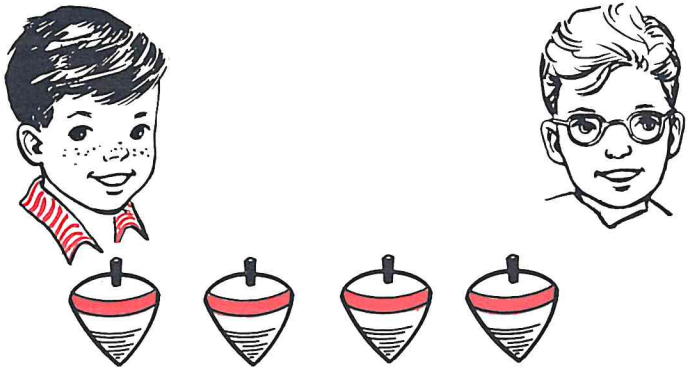
9 nine 

10 ten 

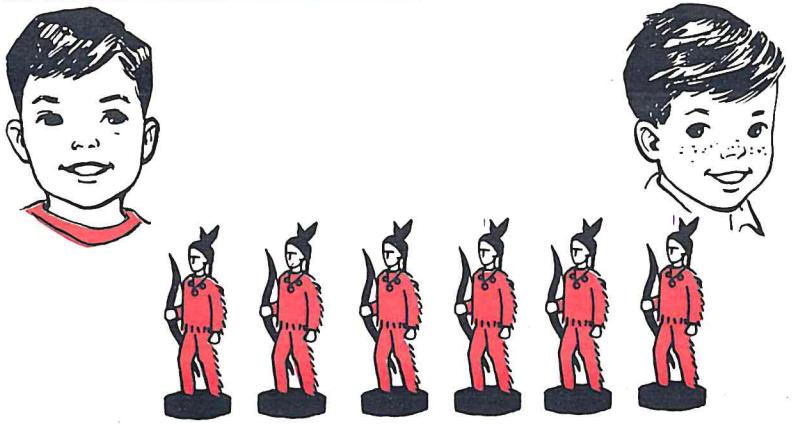
six	nine	seven	eight	seven	five
eight	five	ten	six	eight	nine
five	eight	nine	seven	ten	six



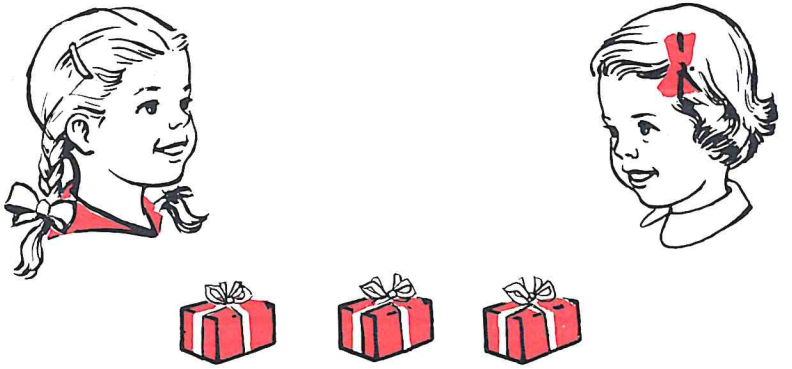
Each gets the same.
Each gets ? .



Each gets the same.
Each gets ? s.



Each gets the same.
Each gets ? s.



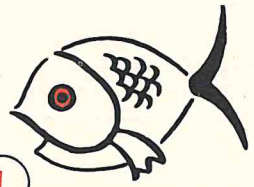
Can each get the same?
Tell why.

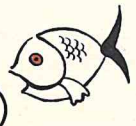
largest

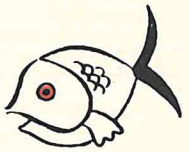
smallest

1 2 3

Which is the largest?
Which is the smallest?







1 2 3

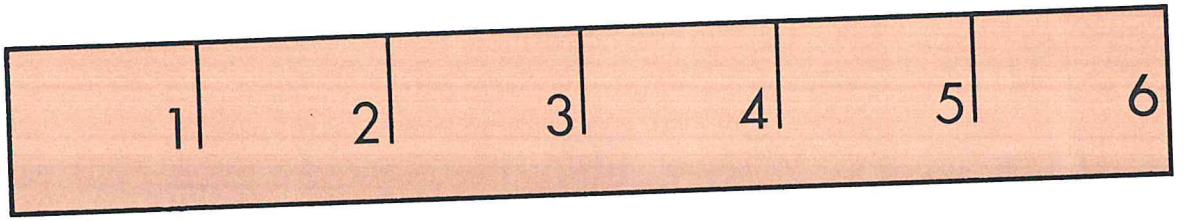
Which is the smallest?
Which is the largest?

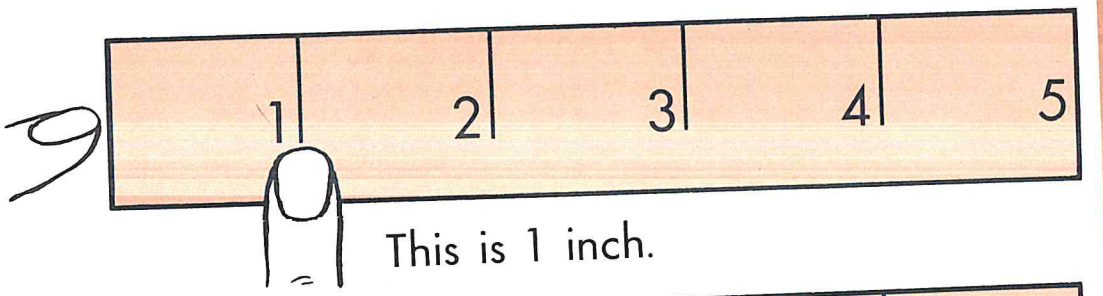
1 2 3

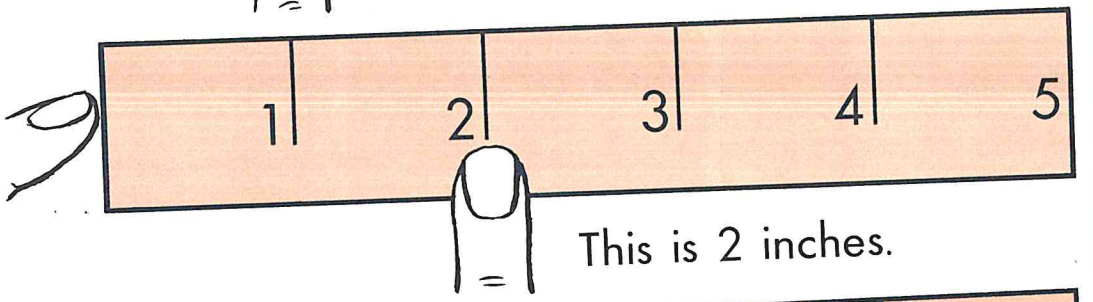
Which is the smallest?
Which is the largest?

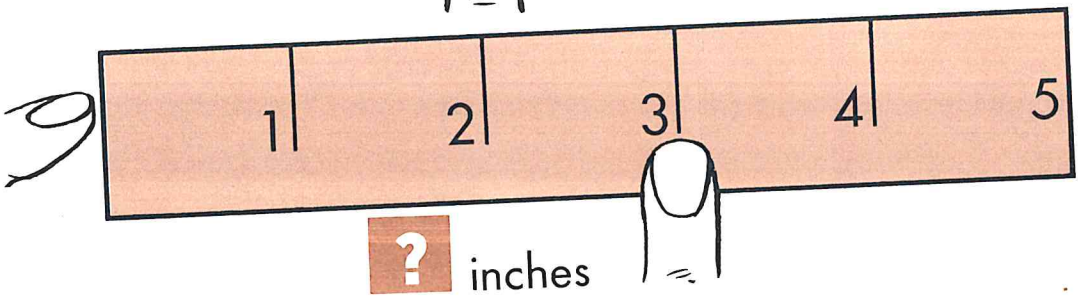
1 2 3

Which is the largest?
Which is the smallest?









1. In the top picture show

   4 inches.

   5 inches.

   6 inches.

2. Which is most?

   4 inches

   2 inches

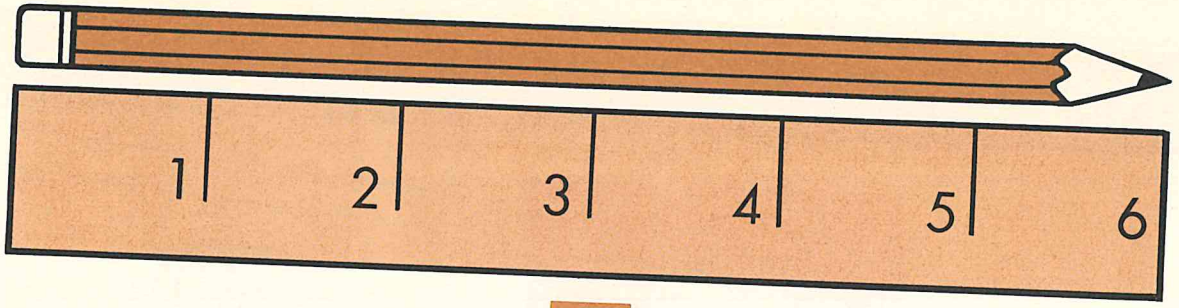
   5 inches

3. Which is most?

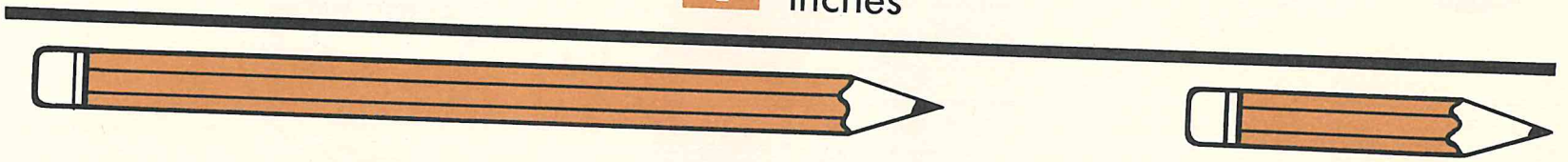
   3 inches

   6 inches

   5 inches

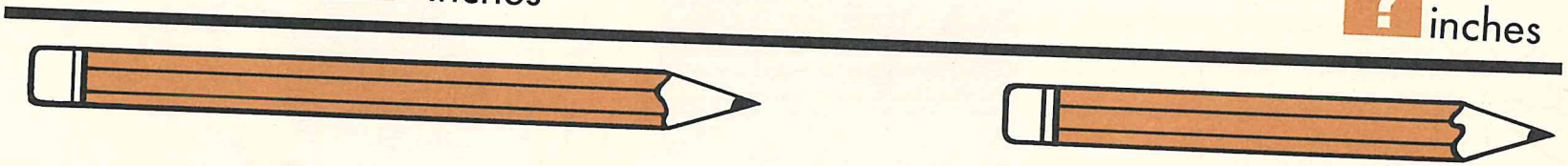


? inches



? inches

? inches



? inches

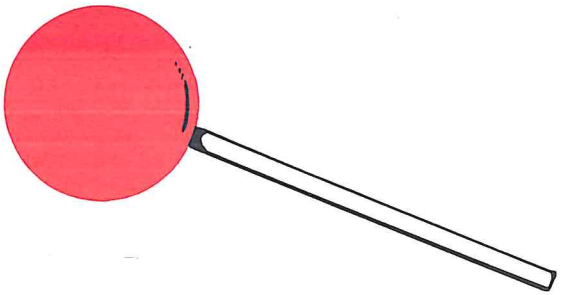
? inches

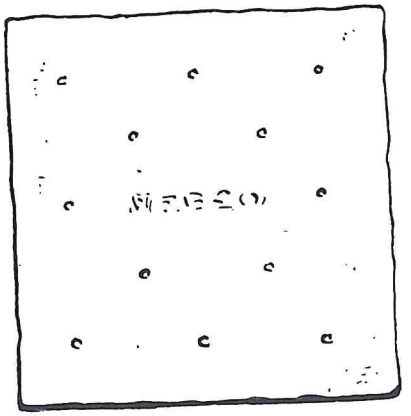
? inches

? inches

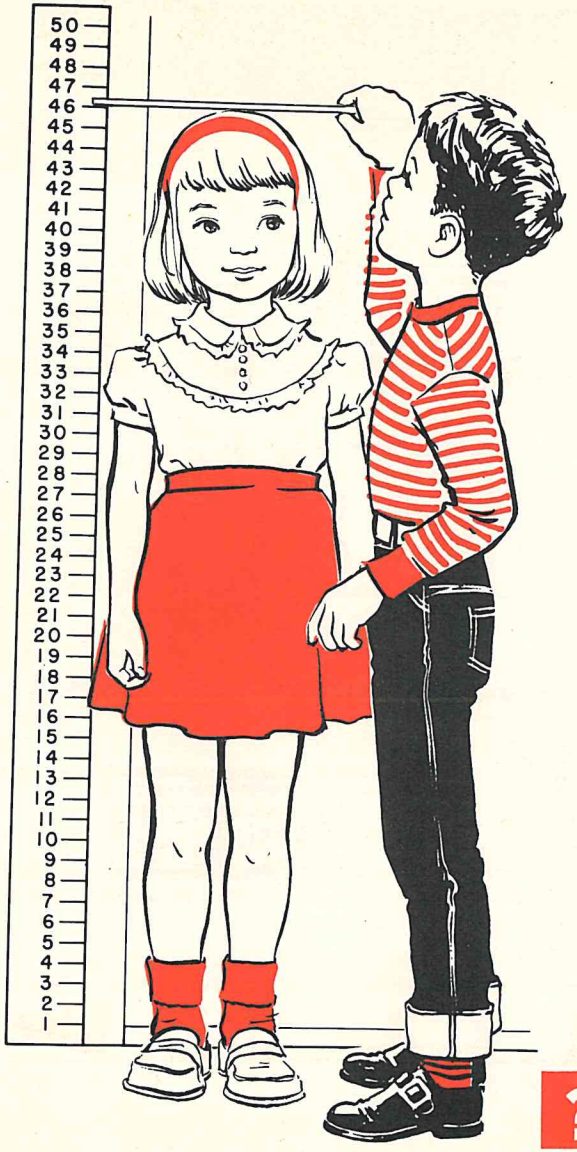
? inch

? inches





Jack

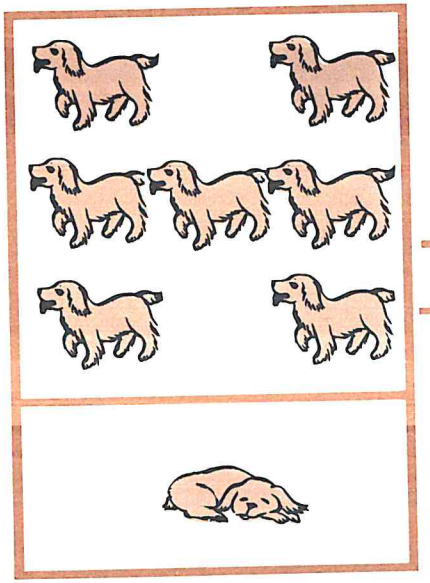


45	47	43
40	43	45
50	48	49
51	49	52
46	50	48
42	46	48
50	40	49

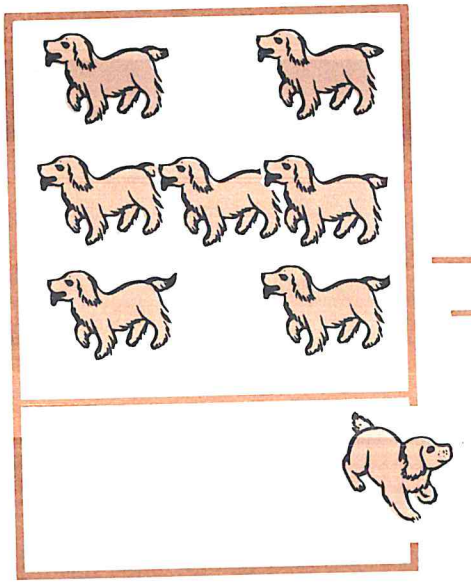
? inches

? inches

A Way to Group 8 s

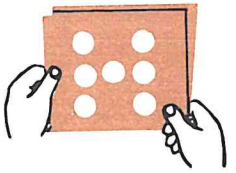


$7 + 1 = 8$

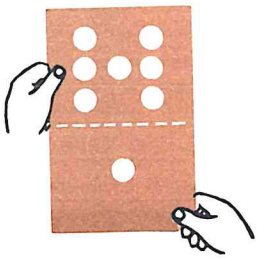


$8 - 1 = 7$

$\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,1 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ +\,6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\,1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\,5 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ +\,5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\,1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\,5 \\ \hline \end{array}$

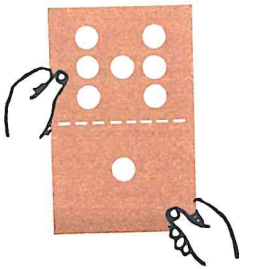


You see ?

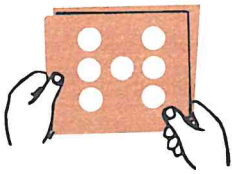


Open and see $\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$

?



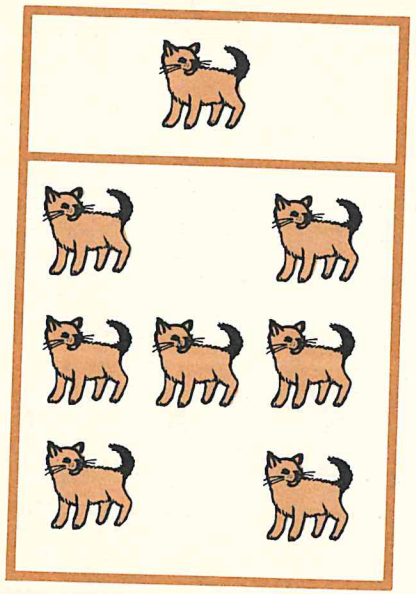
You see ? in all.



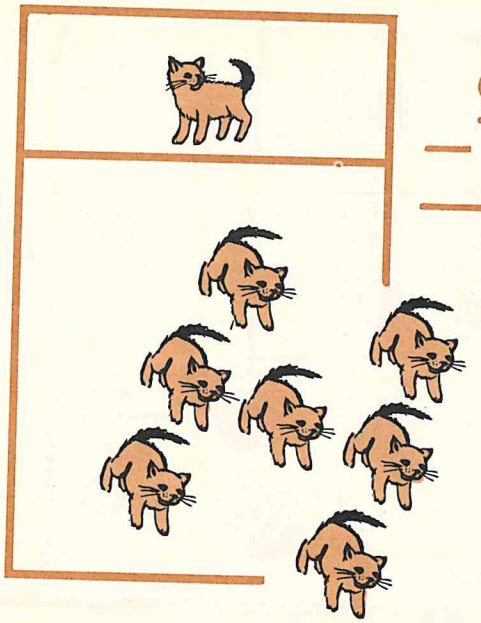
Close to show $\begin{array}{r} 8 \\ -\,1 \\ \hline \end{array}$

?

A Way to Group 8 s



$$\begin{array}{r} 1 \\ +\,7 \\ \hline 8 \end{array}$$

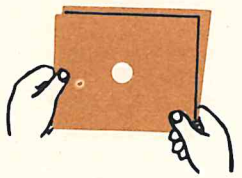


$$\begin{array}{r} 8 \\ -\,7 \\ \hline 1 \end{array}$$

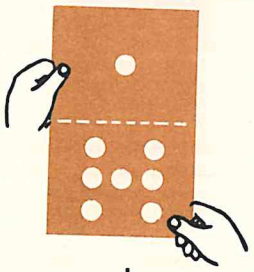
$$\begin{array}{r} 1 \\ +\,7 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ -\,7 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +\,7 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ -\,7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ +\,7 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ -\,7 \\ \hline \end{array}$$

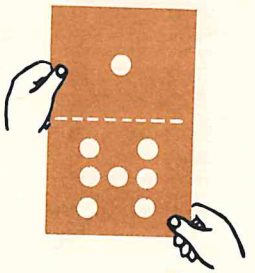
$$\begin{array}{r} 2 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ -\,2 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ +\,3 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ -\,3 \\ \hline \end{array}$$



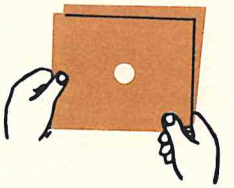
You see ?



Open and see $\begin{array}{r} 1 \\ +\,7. \\ \hline ? \end{array}$

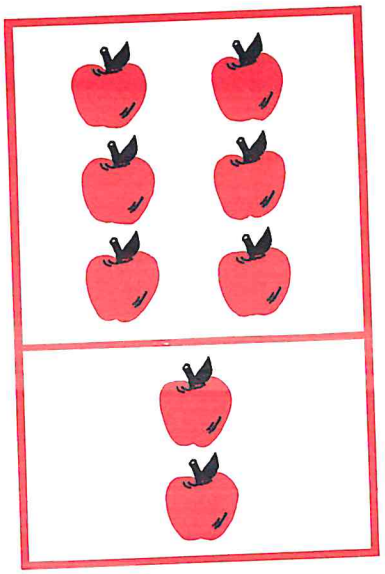


You see ? in all.

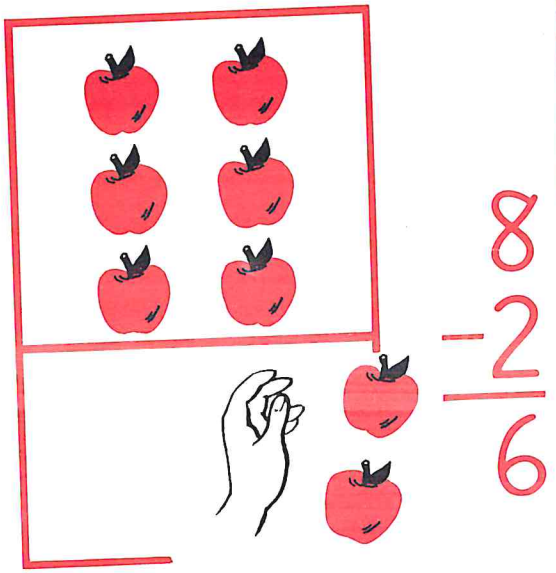


Close to show $\begin{array}{r} 8 \\ -\,7. \\ \hline ? \end{array}$

A Way to Group 8 s



$$6 + 2 = 8$$

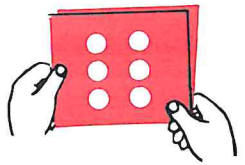


$$8 - 2 = 6$$

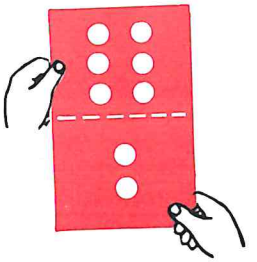
$$\begin{array}{rrrr} 6 & 8 & 6 & 8 \\ +\,2 & -\,2 & +\,2 & -\,2 \\ \hline \end{array}$$

$$\begin{array}{rrrr} 7 & 8 & 1 & 8 \\ +\,1 & -\,1 & +\,7 & -\,7 \\ \hline \end{array}$$

$$\begin{array}{rrrr} 1 & 8 & 6 & 8 \\ +\,7 & -\,7 & +\,2 & -\,2 \\ \hline \end{array}$$

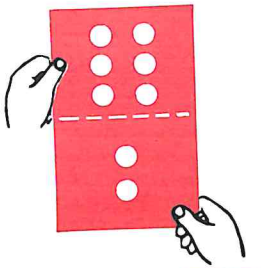


You see ? .



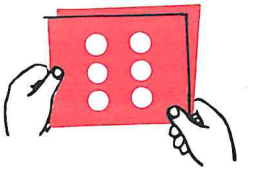
Open and see $\begin{array}{r} 6 \\ +\,2 \\ \hline \end{array}$.

?



You see ? .

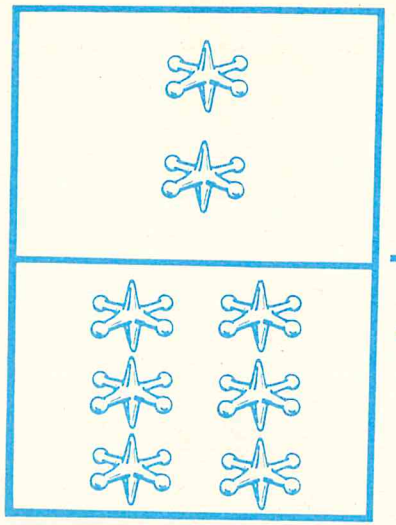
in all.



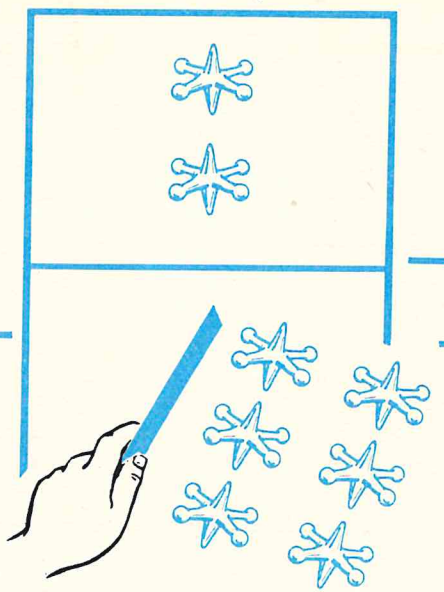
Close to show $\begin{array}{r} 8 \\ -\,2 \\ \hline \end{array}$.

?

A Way to Group 8 ✻ s

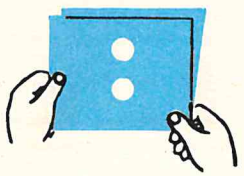


$$2 + 6 = 8$$

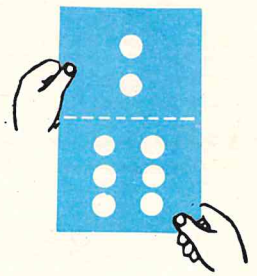


$$8 - 6 = 2$$

$\begin{array}{r} 2 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -2 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ +1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -7 \\ \hline \end{array}$

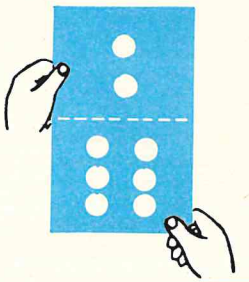


You see ?

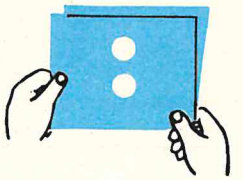


Open and see $\begin{array}{r} 2 \\ +6 \\ \hline \end{array}$

?

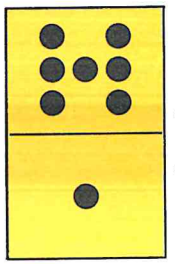


You see ? in all.

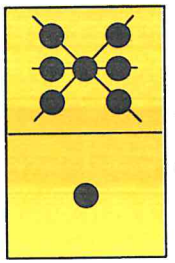


Close to show $\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$

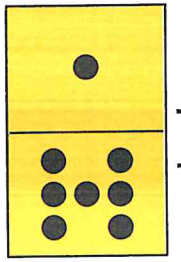
?



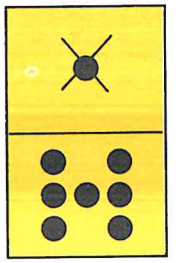
$$\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$$



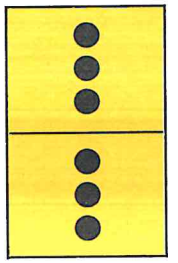
$$\begin{array}{r} 8 \\ -\,7 \\ \hline \end{array}$$



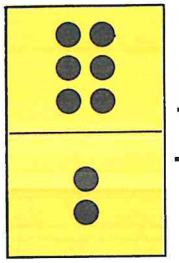
$$\begin{array}{r} 1 \\ +\,7 \\ \hline \end{array}$$



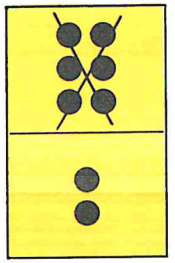
$$\begin{array}{r} 8 \\ -\,1 \\ \hline \end{array}$$



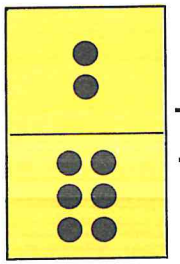
$$\begin{array}{r} 3 \\ +\,3 \\ \hline \end{array}$$



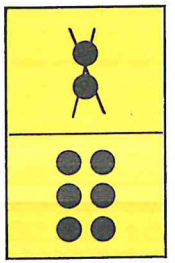
$$\begin{array}{r} 6 \\ +\,2 \\ \hline \end{array}$$



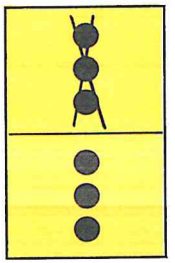
$$\begin{array}{r} 8 \\ -\,6 \\ \hline \end{array}$$



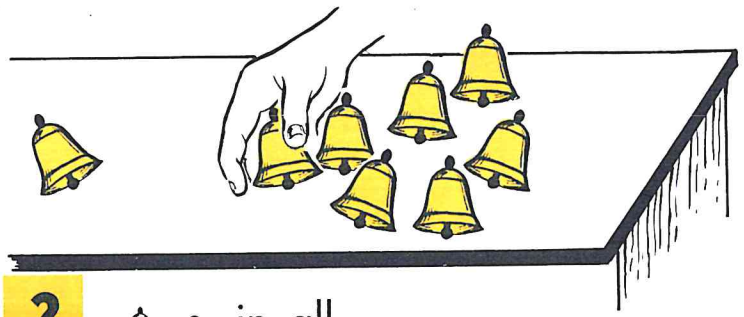
$$\begin{array}{r} 2 \\ +\,6 \\ \hline \end{array}$$



$$\begin{array}{r} 8 \\ -\,2 \\ \hline \end{array}$$



$$\begin{array}{r} 6 \\ -\,3 \\ \hline \end{array}$$



? s in all

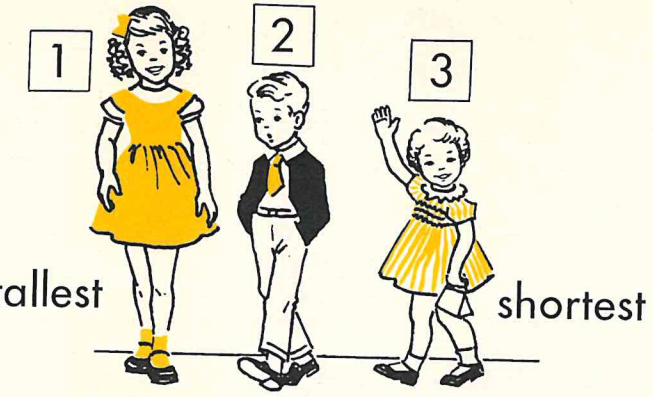
Jack takes away ? s.

? is left.

? s on the

? s in the

? s in all



Who is the tallest?
Who is the shortest?

Who is the tallest?
Who is the shortest?

Which is the tallest?
Which is the shortest?

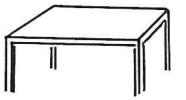
Which is the tallest?
Which is the shortest?

Sally's Party

? children are s.

? children are s.

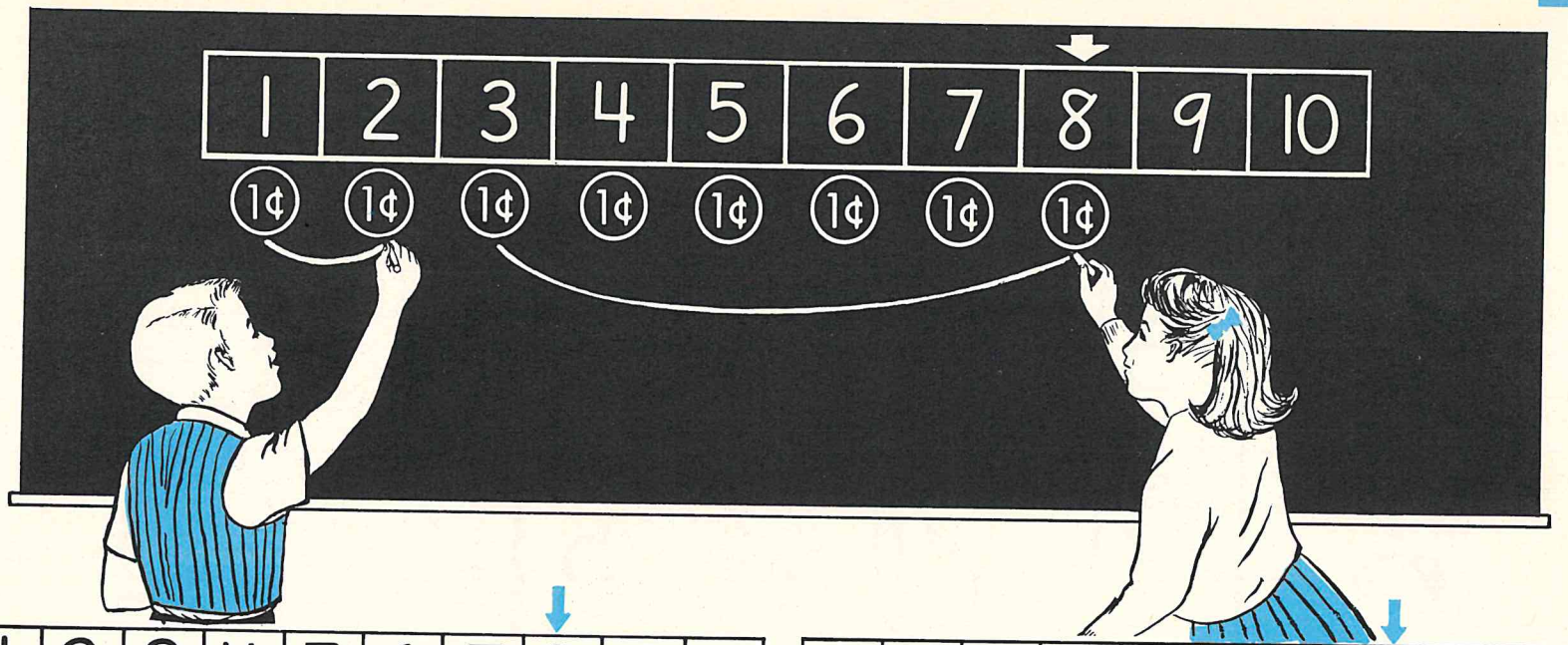
? children in all

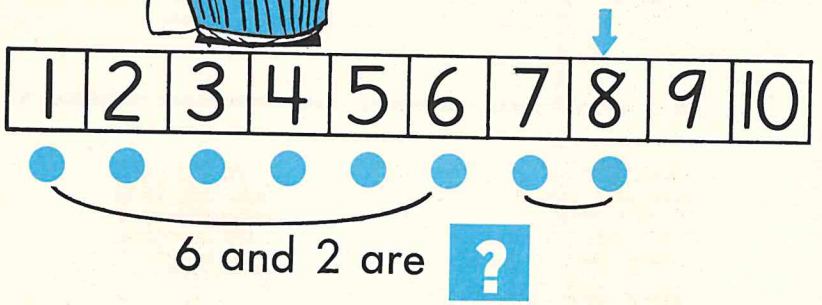
? children at the 

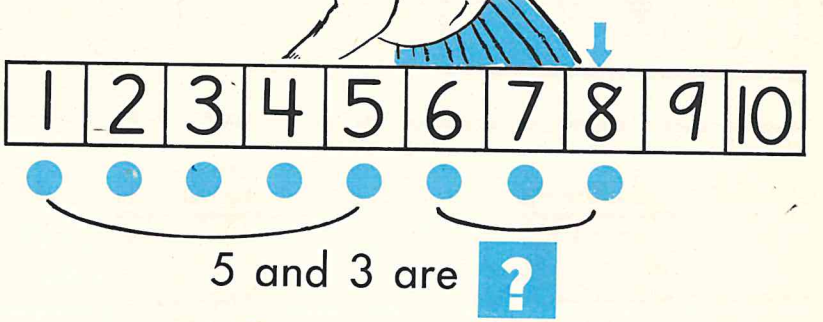
? children have s.

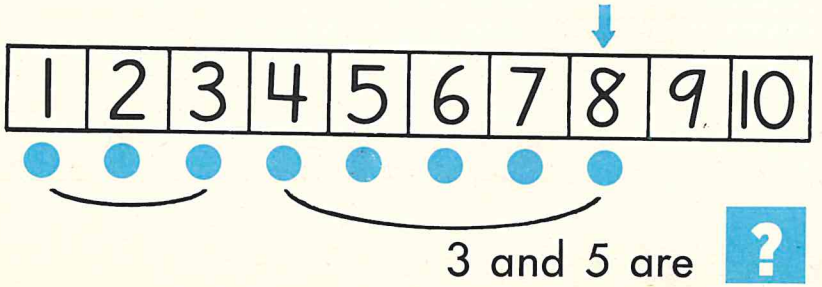
? children have no s.

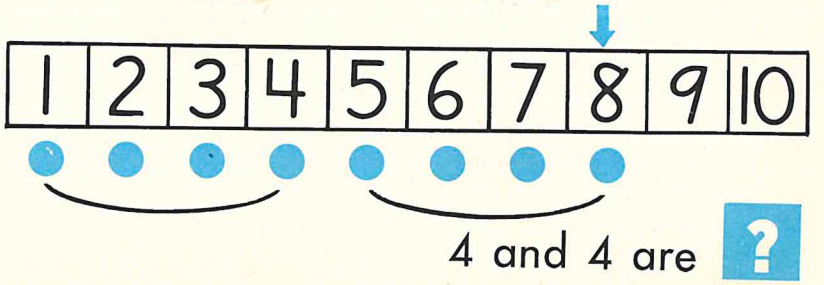
Make more stories about Sally's party.

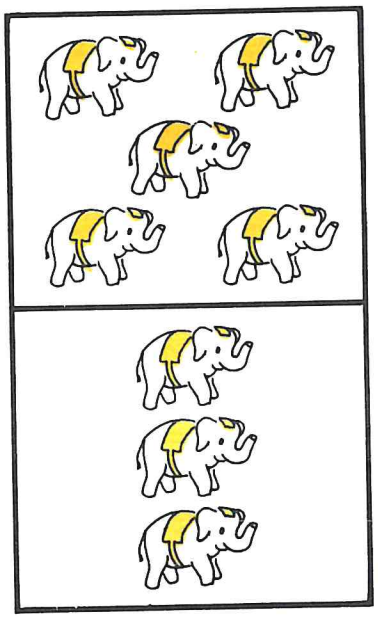

1 2 3 4 5 6 7 8 9 10
1¢ 1¢ 1¢ 1¢ 1¢ 1¢ 1¢ 1¢


1 2 3 4 5 6 7 8 9 10
6 and 2 are ?

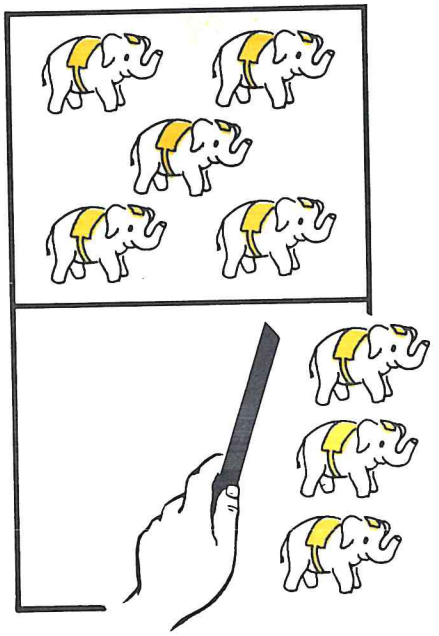

1 2 3 4 5 6 7 8 9 10
5 and 3 are ?


1 2 3 4 5 6 7 8 9 10
3 and 5 are ?


1 2 3 4 5 6 7 8 9 10
4 and 4 are ?

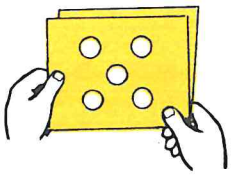


$$5 + 3 = 8$$

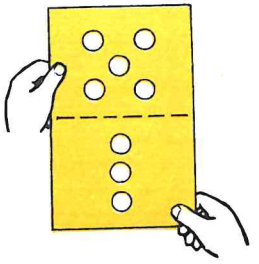


$$8 - 3 = 5$$

$5 + 3$	$8 - 3$	$5 + 3$	$8 - 3$
$6 + 2$	$8 - 2$	$2 + 6$	$8 - 6$
$7 + 1$	$8 - 1$	$1 + 7$	$8 - 7$

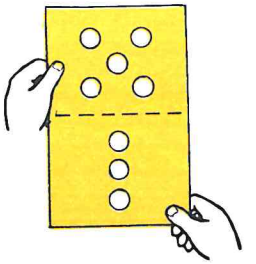


You see **?**



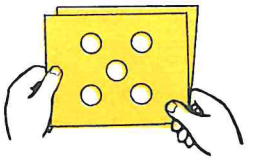
Open and see $5 + 3$.

?



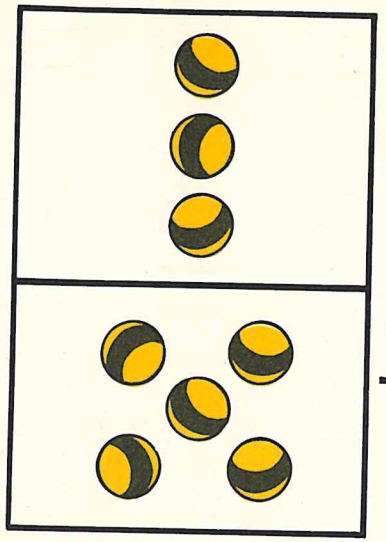
You see **?**

in all.

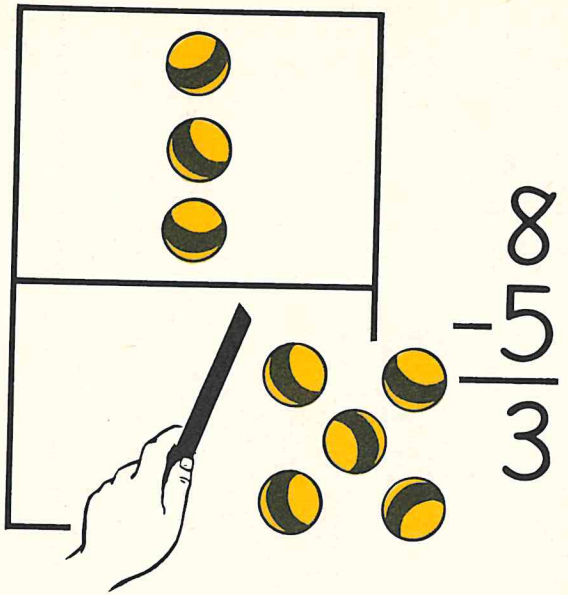


Close to show $8 - 3$.

?

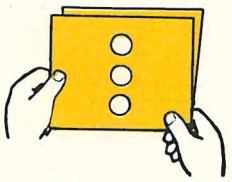


$$\begin{array}{r} 3 \\ +\,5 \\ \hline 8 \end{array}$$

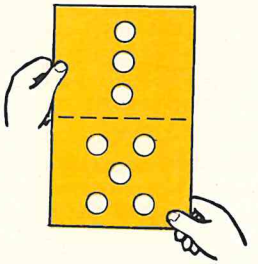


$$\begin{array}{r} 8 \\ -\,5 \\ \hline 3 \end{array}$$

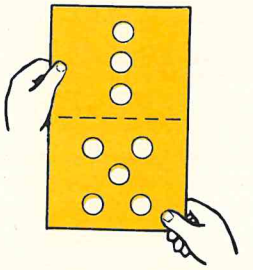
$\begin{array}{r} 3 \\ +\,5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +\,3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,3 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ +\,7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,7 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ +\,2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ +\,6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,6 \\ \hline \end{array}$



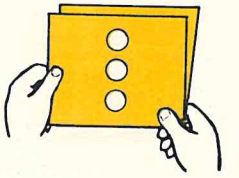
You see **?**



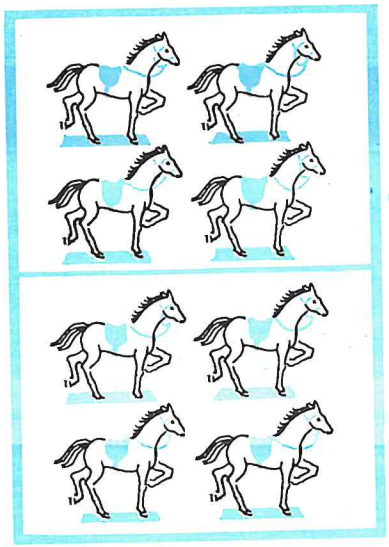
Open and see $\begin{array}{r} 3 \\ +\,5. \\ \hline ? \end{array}$



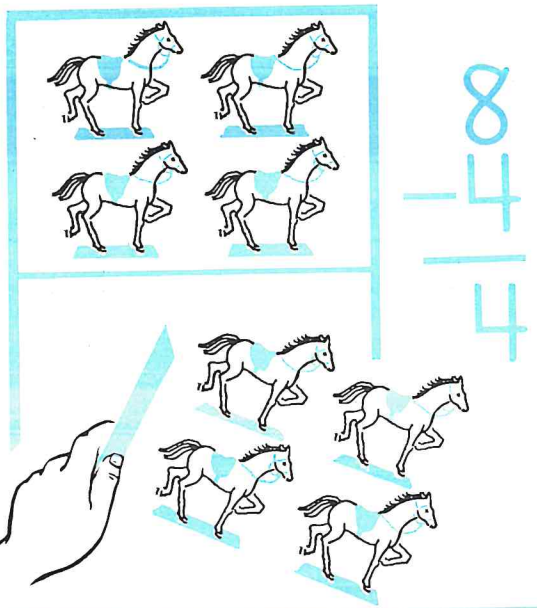
You see **?** in all.



Close to show $\begin{array}{r} 8 \\ -\,5. \\ \hline ? \end{array}$

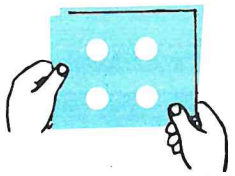


$4 + 4 = 8$

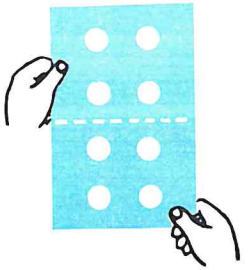


$8 - 4 = 4$

$4 + 4$	$8 - 4$	$4 + 4$	$8 - 4$
$5 + 3$	$3 + 5$	$8 - 5$	$8 - 3$
$6 + 2$	$8 - 2$	$2 + 6$	$8 - 6$

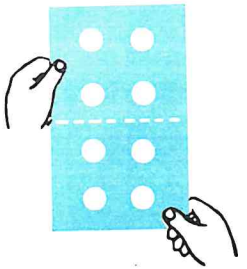


You see ?



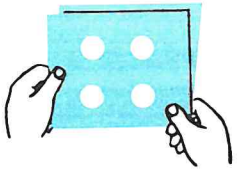
Open and see $4 + 4$.

?



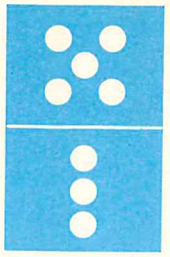
You see ?

in all.

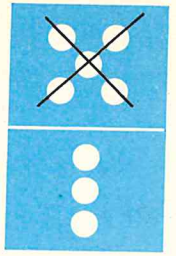


Close to show $8 - 4$.

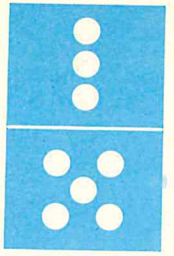
?



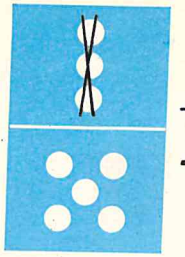
$$\begin{array}{r} 5 \\ +\,3 \\ \hline \end{array}$$



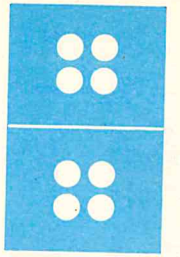
$$\begin{array}{r} 8 \\ -\,5 \\ \hline \end{array}$$



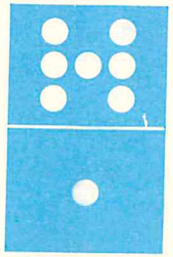
$$\begin{array}{r} 3 \\ +\,5 \\ \hline \end{array}$$



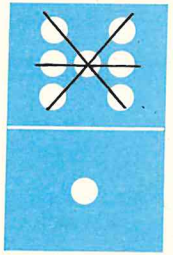
$$\begin{array}{r} 8 \\ -\,3 \\ \hline \end{array}$$



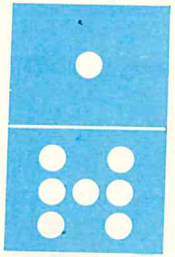
$$\begin{array}{r} 4 \\ +\,4 \\ \hline \end{array}$$



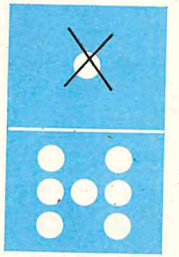
$$\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$$



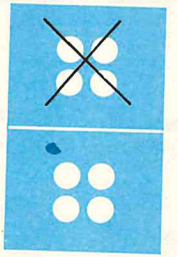
$$\begin{array}{r} 8 \\ -\,7 \\ \hline \end{array}$$



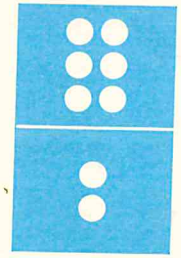
$$\begin{array}{r} 1 \\ +\,7 \\ \hline \end{array}$$



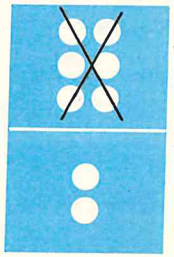
$$\begin{array}{r} 8 \\ -\,1 \\ \hline \end{array}$$



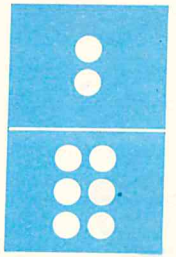
$$\begin{array}{r} 8 \\ -\,4 \\ \hline \end{array}$$



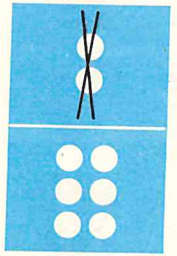
$$\begin{array}{r} 6 \\ +\,2 \\ \hline \end{array}$$



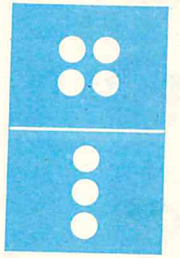
$$\begin{array}{r} 8 \\ -\,6 \\ \hline \end{array}$$



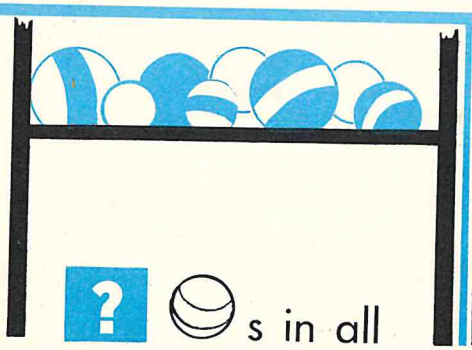
$$\begin{array}{r} 2 \\ +\,6 \\ \hline \end{array}$$



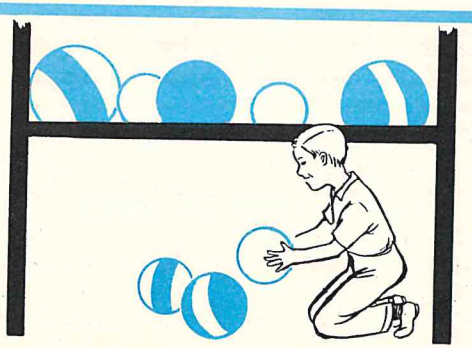
$$\begin{array}{r} 8 \\ -\,2 \\ \hline \end{array}$$



$$\begin{array}{r} 4 \\ +\,3 \\ \hline \end{array}$$



1 ? s in all

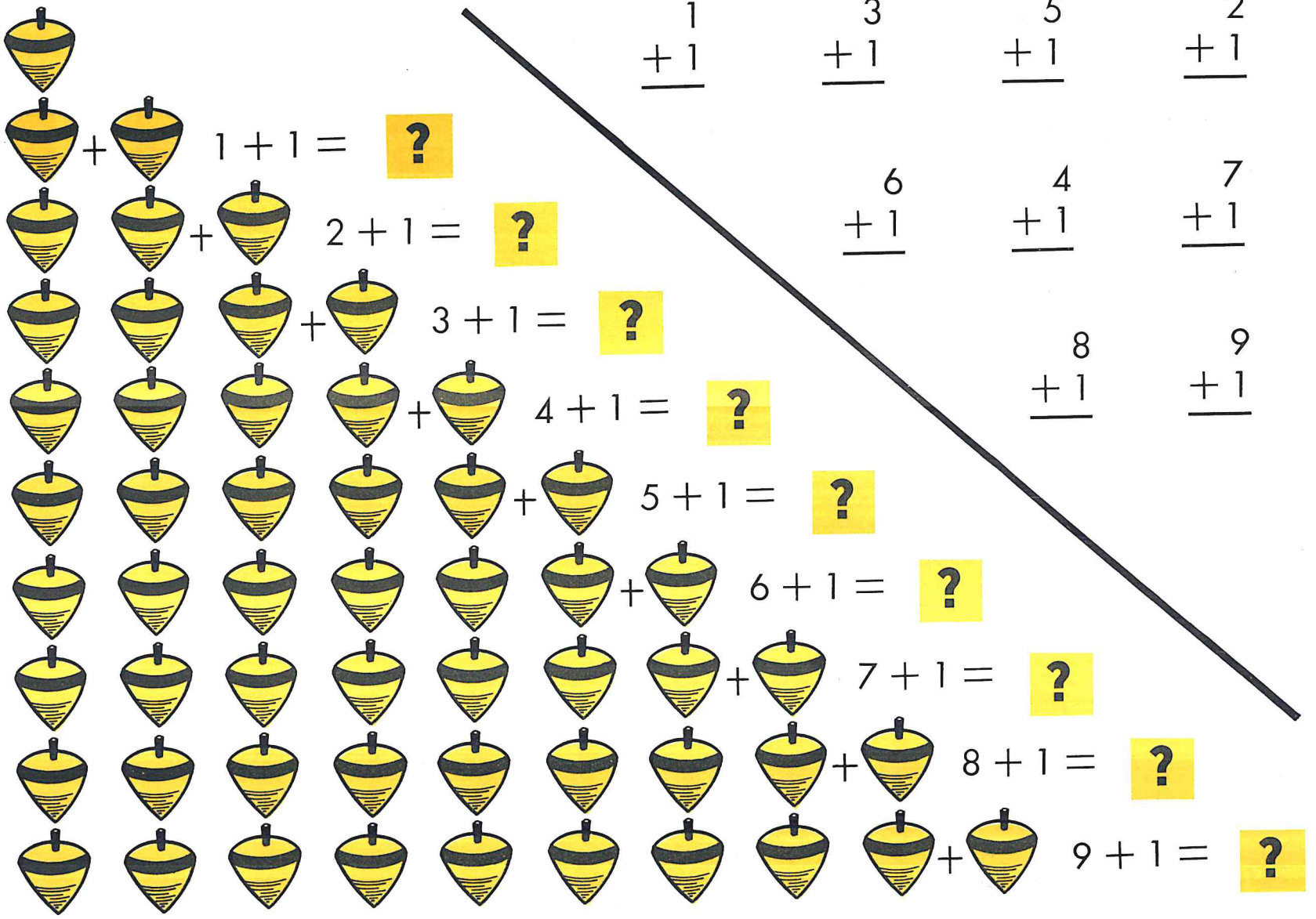


2

Jack takes ? s.

Cover the s Jack takes.

? s are left.



1 + 1 = ?

2 + 1 = ?

3 + 1 = ?

4 + 1 = ?

5 + 1 = ?

6 + 1 = ?

7 + 1 = ?

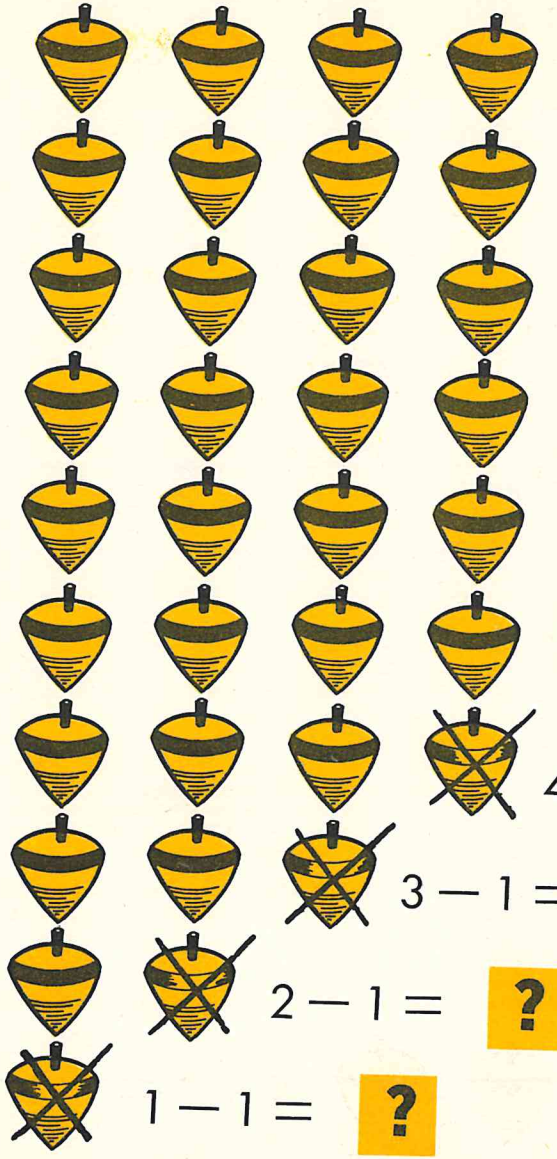
8 + 1 = ?

9 + 1 = ?

$\begin{array}{r} 1 \\ +\,1 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ +\,1 \\ \hline \end{array}$ $\begin{array}{r} 5 \\ +\,1 \\ \hline \end{array}$ $\begin{array}{r} 2 \\ +\,1 \\ \hline \end{array}$

$\begin{array}{r} 6 \\ +\,1 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ +\,1 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$

$\begin{array}{r} 8 \\ +\,1 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ +\,1 \\ \hline \end{array}$



$10 - 1 =$?

$9 - 1 =$?

$8 - 1 =$?

$7 - 1 =$?

$6 - 1 =$?

$5 - 1 =$?

$4 - 1 =$?

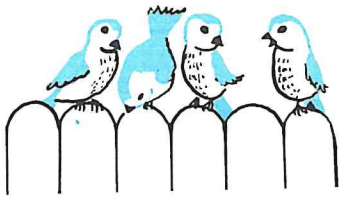
$3 - 1 =$?

$2 - 1 =$?

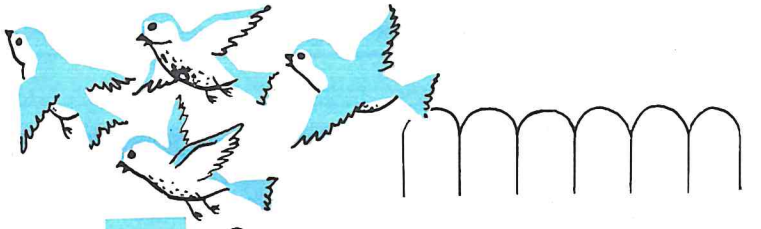
$1 - 1 =$?

$$\begin{array}{r} 1 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ -\,1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ -\,1 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ -\,1 \\ \hline \end{array}$$

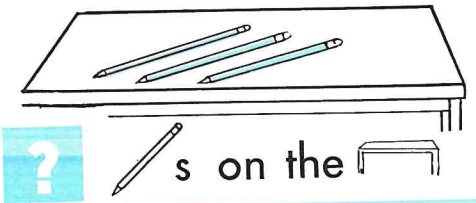


? s on the .

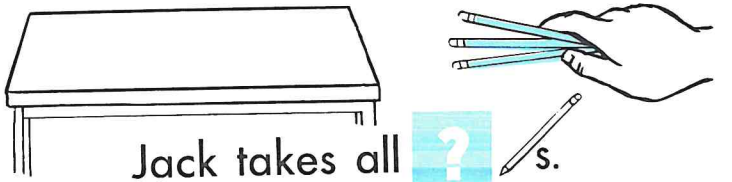


All ? s fly away.

4 s
− 4 s
? s



? s on the .



Jack takes all ? s.

3 s
− 3 s
? s

Sally has ? cents.

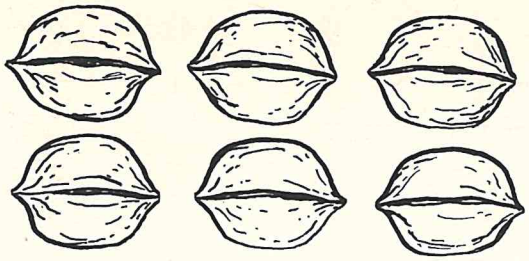
Sally gives all ? cents to a .

5 cents
− 5 cents
? cents

? s in all

Jane takes all ? s.

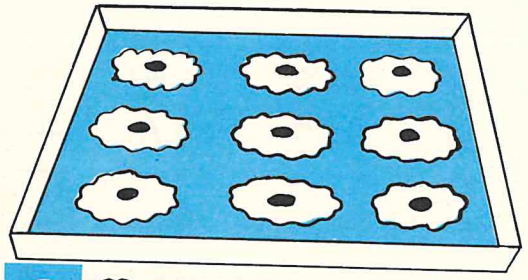
7 s
− 7 s
? s



? s for the s

The s eat all ? s.

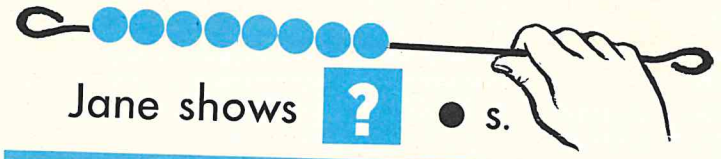
6 s
− 6 s
? s



? s on a

Mary takes all ? s.

9 s
− 9 s
? s



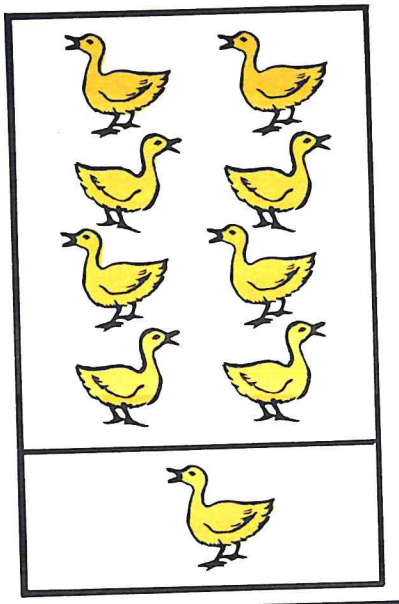
Jane shows ? ● s.

Jane takes away all ? ● s.

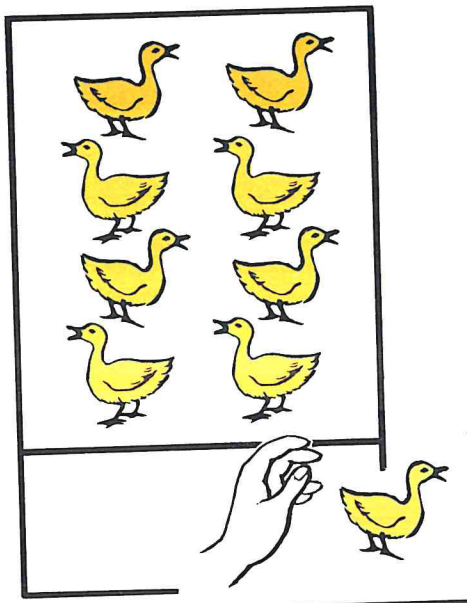
8 ● s
− 8 ● s
? ● s

4	7	3	5	2	1	6	9	8
− 4	− 7	− 3	− 5	− 2	− 1	− 6	− 9	− 8

A Way to Group 9 s

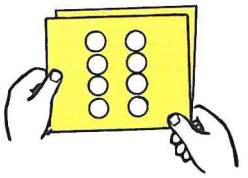


$$8 + 1 = 9$$

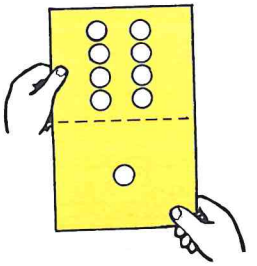


$$9 - 1 = 8$$

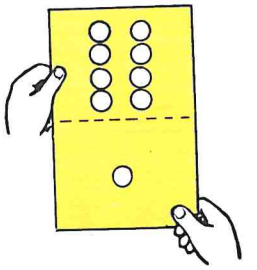
$8 + 1$	$9 - 1$	$8 - 1$	$9 - 1$
$7 - 7$	$5 - 5$	$3 - 3$	$1 - 1$
$4 - 4$	$2 - 2$	$6 - 6$	$8 - 8$



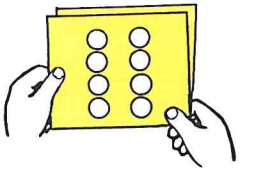
You see **?**



Open and see $8 + 1 = ?$

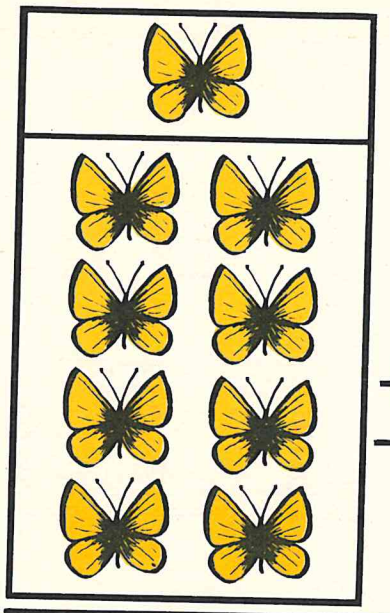


You see **?** in all.

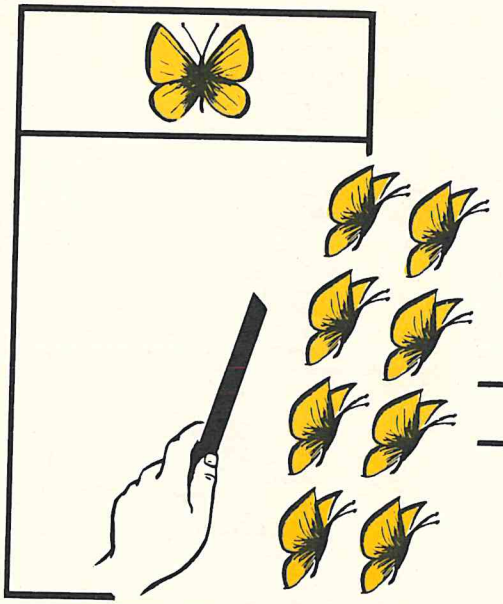


Close to show $9 - 1 = ?$

A Way to Group 9 s

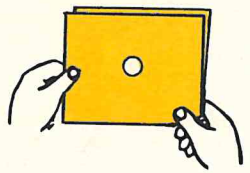


$$\begin{array}{r} 1 \\ +\,8 \\ \hline 9 \end{array}$$

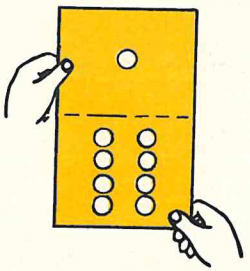


$$\begin{array}{r} 9 \\ -\,8 \\ \hline 1 \end{array}$$

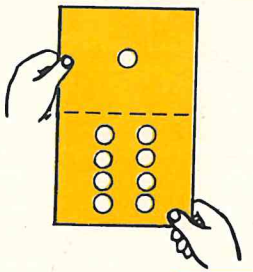
$\begin{array}{r} 1 \\ +\,8 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -\,8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -\,1 \\ \hline \end{array}$
$\begin{array}{r} 4 \\ +\,4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ +\,3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\,3 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ +\,1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ +\,7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -\,7 \\ \hline \end{array}$



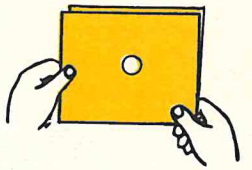
You see **?**



Open and see $\begin{array}{r} 1 \\ +\,8. \\ \hline ? \end{array}$

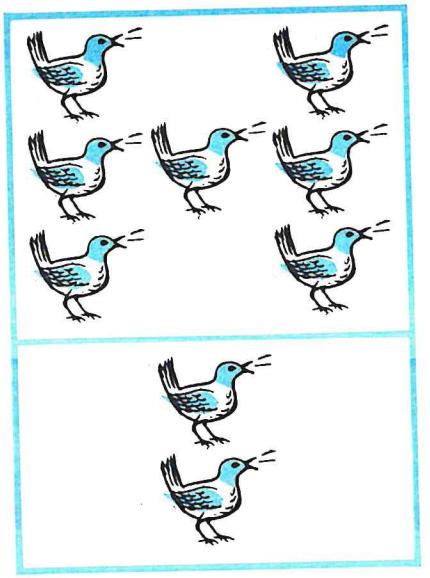


You see **?** in all.

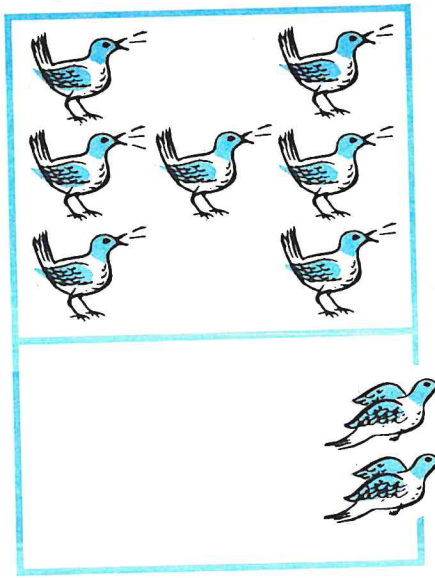


Close to show $\begin{array}{r} 9 \\ -\,8. \\ \hline ? \end{array}$

A Way to Group 9 s



$$7 + 2 = 9$$

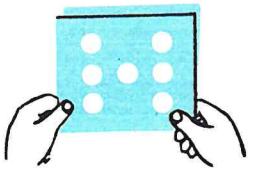


$$9 - 2 = 7$$

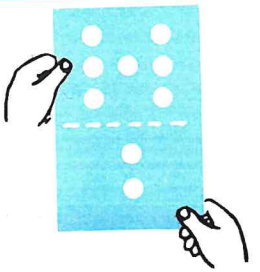
$$\begin{array}{rrrr} 7 & 9 & 7 & 9 \\ +\,2 & -\,2 & +\,2 & -\,2 \\ \hline \end{array}$$

$$\begin{array}{rrrr} 8 & 9 & 1 & 9 \\ +\,1 & -\,1 & +\,8 & -\,8 \\ \hline \end{array}$$

$$\begin{array}{rrrr} 7 & 6 & 9 & 8 \\ -\,7 & -\,6 & -\,9 & -\,8 \\ \hline \end{array}$$

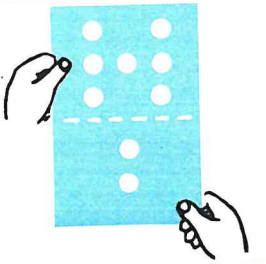


You see ?.



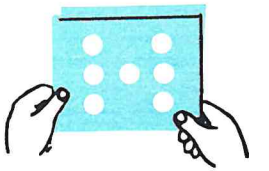
Open and see $\begin{array}{r} 7 \\ +\,2. \\ \hline \end{array}$

?



You see ?

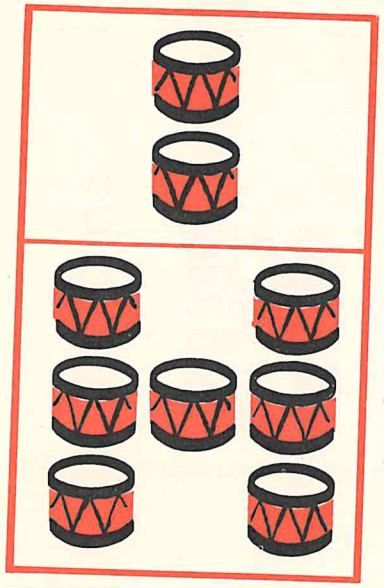
in all.



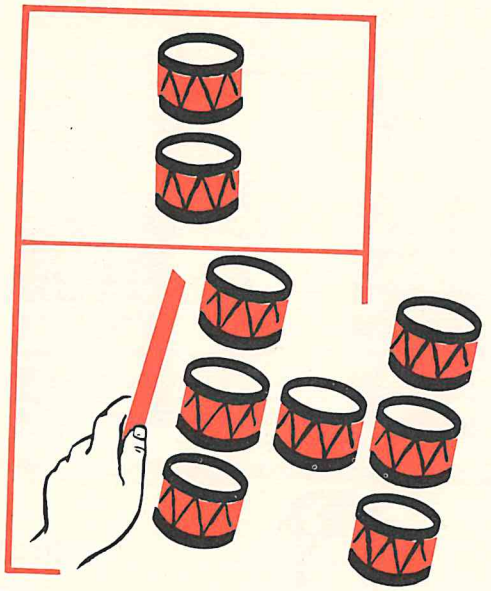
Close to show $\begin{array}{r} 9 \\ -\,2. \\ \hline \end{array}$

?

A Way to Group 9 s

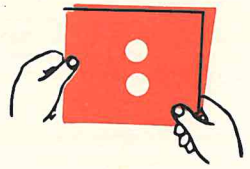


$$2 + 7 = 9$$

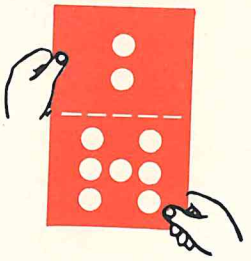


$$9 - 7 = 2$$

$2 + 7$	$9 - 7$	$2 + 7$	$9 - 7$
$7 + 2$	$9 - 2$	$7 + 2$	$9 - 2$
$8 + 1$	$1 + 8$	$9 - 1$	$9 - 8$

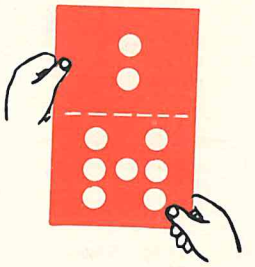


You see ?

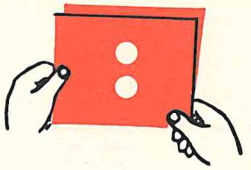


Open and see $2 + 7$.

?

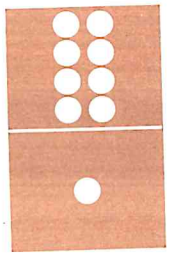


You see ? in all.

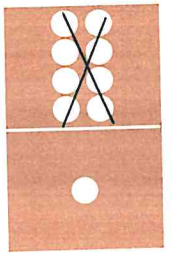


Close to show $9 - 7$.

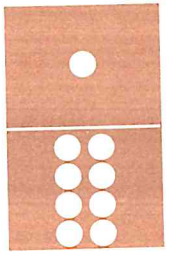
?



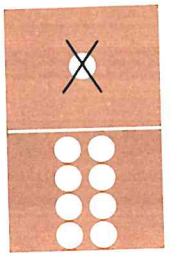
$$\begin{array}{r} 8 \\ +1 \\ \hline \end{array}$$



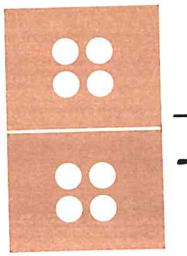
$$\begin{array}{r} 9 \\ -8 \\ \hline \end{array}$$



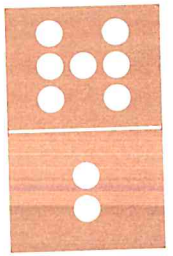
$$\begin{array}{r} 1 \\ +8 \\ \hline \end{array}$$



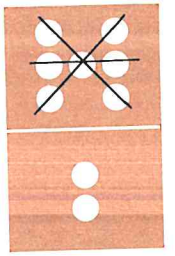
$$\begin{array}{r} 9 \\ -1 \\ \hline \end{array}$$



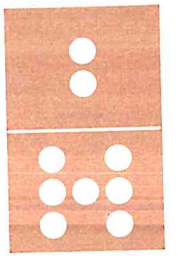
$$\begin{array}{r} 4 \\ +4 \\ \hline \end{array}$$



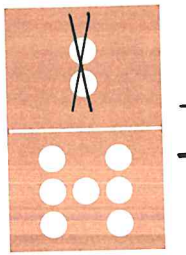
$$\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$$



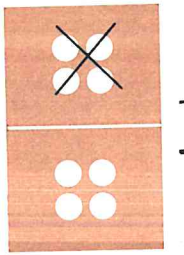
$$\begin{array}{r} 9 \\ -7 \\ \hline \end{array}$$



$$\begin{array}{r} 2 \\ +7 \\ \hline \end{array}$$



$$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$$



$$\begin{array}{r} 8 \\ -4 \\ \hline \end{array}$$

Jane has 7 dolls.

Sally brings 2 dolls.

? dolls in all

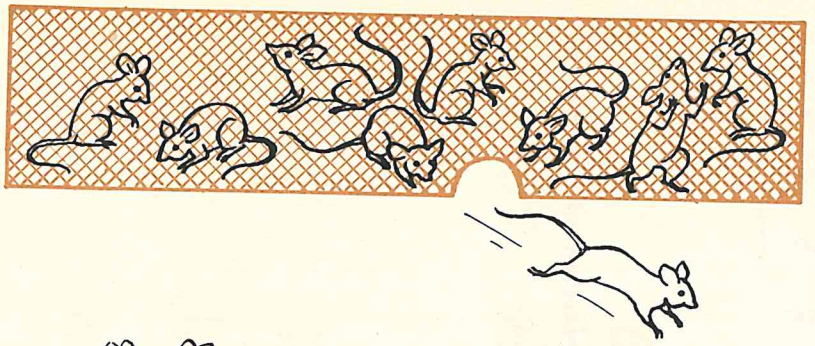
$$\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$$

? dolls in all

Sally takes 2 dolls.

? dolls are left.

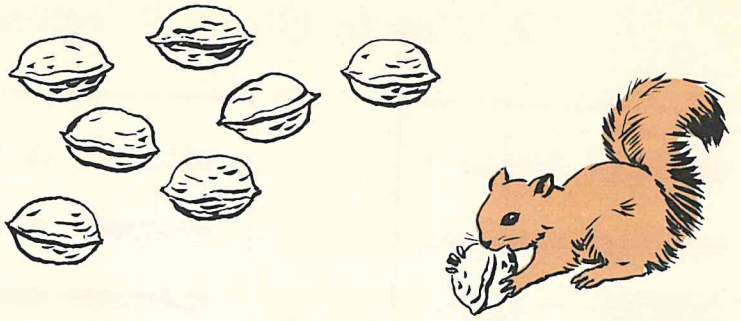
$$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$$



9 were in a .

? runs away.

? are left.



I put out 8 s.

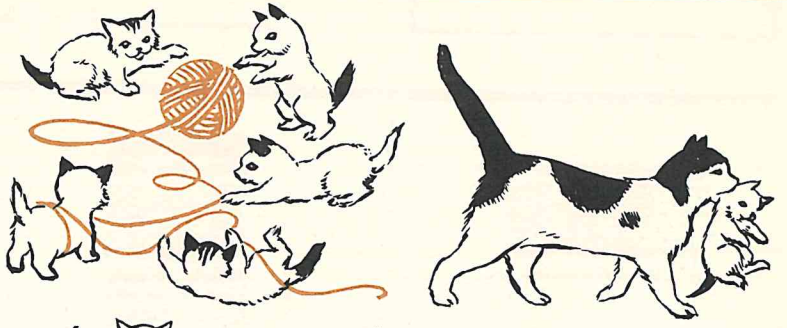
A takes ? .

? s are left.

There were 7 s in all.

The takes ? .

? s are left.

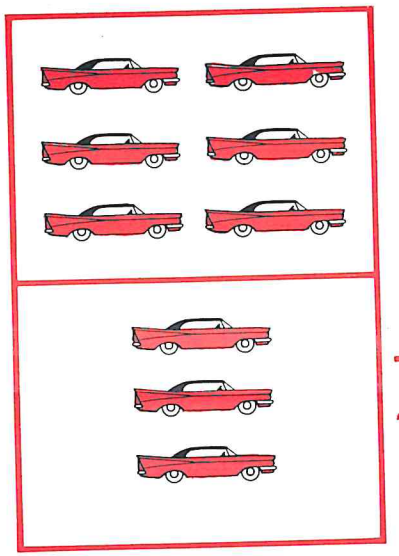


6 s were playing.

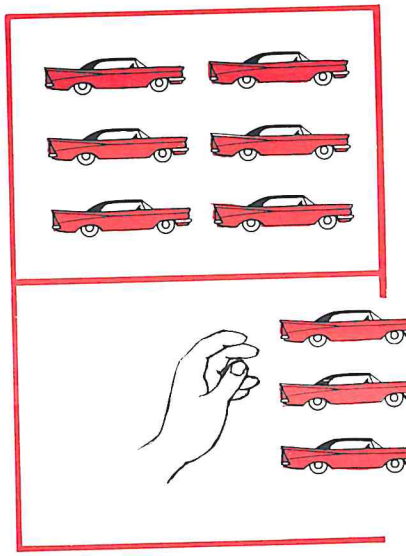
Mother takes ? .

? s are left.

A Way to Group 9 s

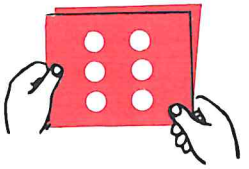


$$6 + 3 = 9$$

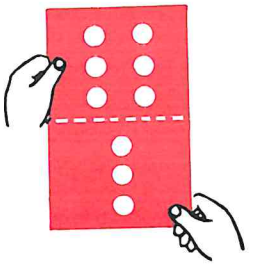


$$9 - 3 = 6$$

$6 + 3$	$9 - 3$	$6 + 3$	$9 - 3$
$7 + 2$	$9 - 2$	$2 + 7$	$9 - 7$
$8 + 1$	$9 - 1$	$1 + 8$	$9 - 8$

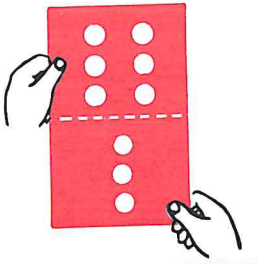


You see ?

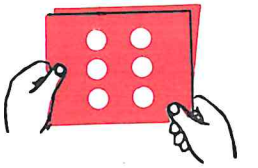


Open and see $6 + 3$.

?



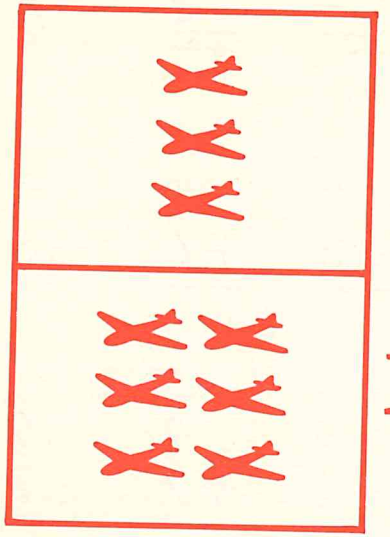
You see ? in all.



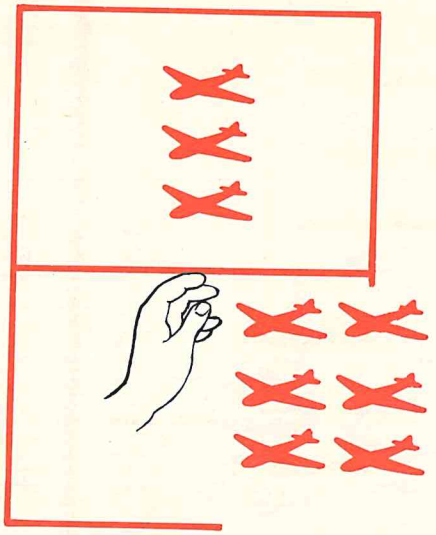
Close to show $9 - 3$.

?

A Way to Group 9 ✈ s

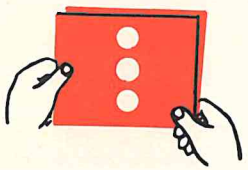


$3 + 6 = 9$

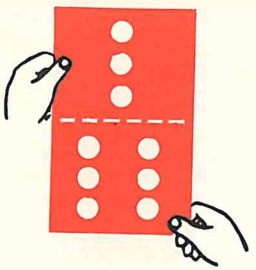


$9 - 6 = 3$

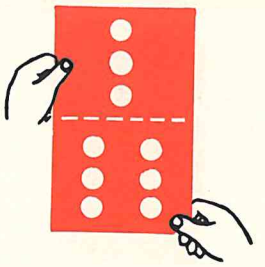
$3 + 6$	$9 - 6$	$6 + 3$	$9 - 3$
$8 + 1$	$9 - 1$	$1 + 8$	$9 - 8$
$7 + 2$	$9 - 2$	$2 + 7$	$9 - 7$



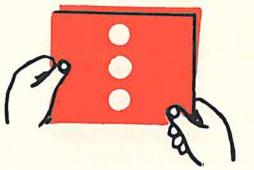
You see ?



Open and see $3 + 6 = ?$

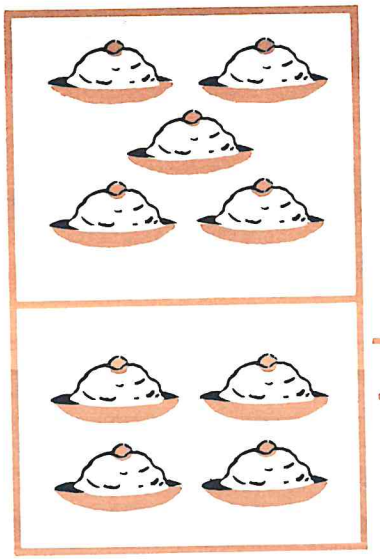


You see ? in all.

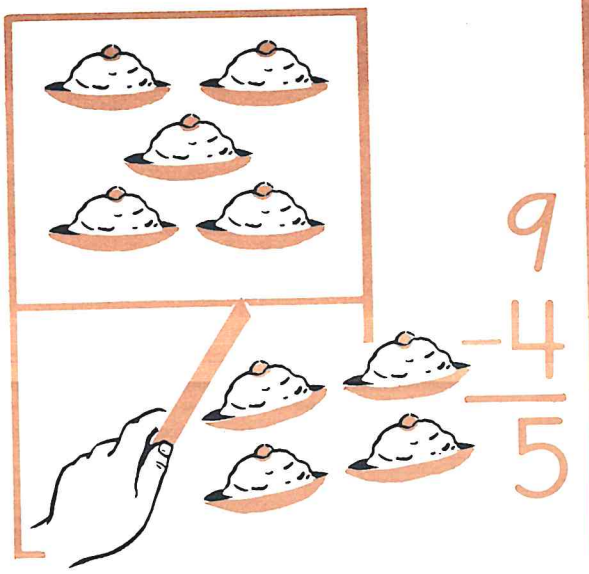


Close to show $9 - 6 = ?$

A Way to Group 9 s

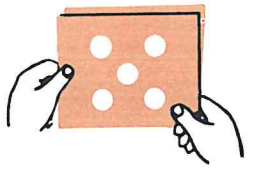


$5 + 4 = 9$

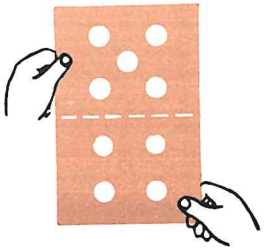


$9 - 4 = 5$

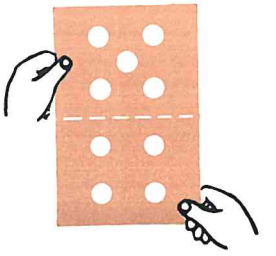
$5 + 4$	$9 - 4$	$5 + 4$	$9 - 4$
$6 + 3$	$9 - 3$	$3 + 6$	$9 - 6$
$7 + 2$	$9 - 2$	$2 + 7$	$9 - 7$



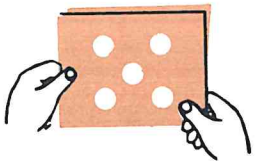
You see ? .



Open and see $5 + 4 = ?$

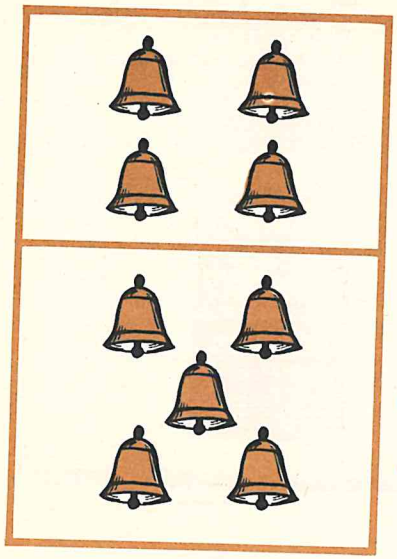


You see ? in all.

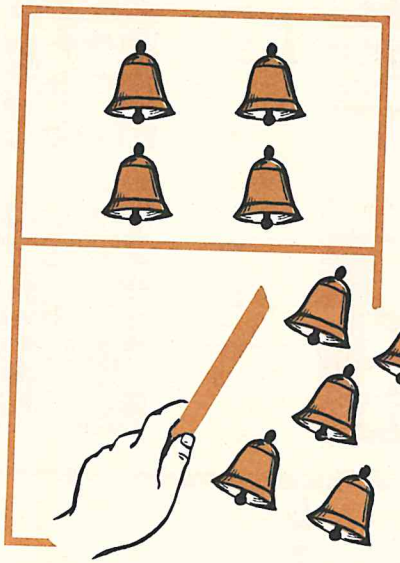


Close to show $9 - 4 = ?$

A Way to Group 9 🔔 s

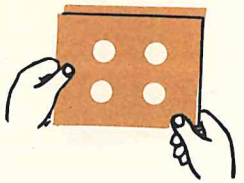


$$4 + 5 = 9$$

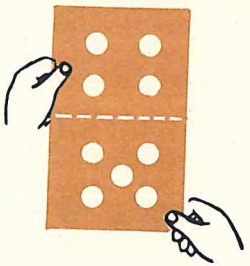


$$9 - 5 = 4$$

$4 + 5$	$9 - 5$	$5 + 4$	$9 - 4$
$6 + 3$	$3 + 6$	$9 - 3$	$9 - 6$
$7 + 2$	$2 + 7$	$9 - 2$	$9 - 7$

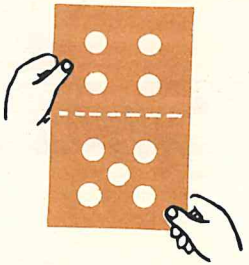


You see ?



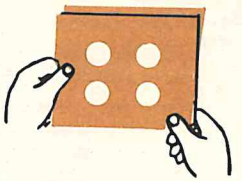
Open and see $4 + 5$.

?



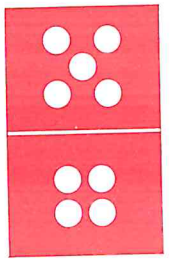
You see ?

in all.

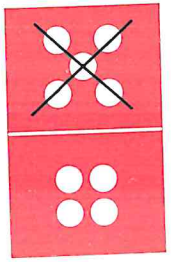


Close to show $9 - 5$.

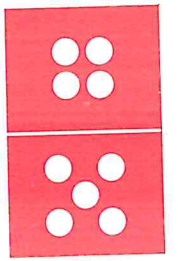
?



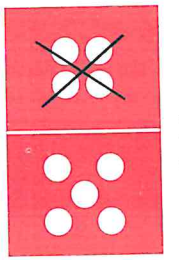
$$\begin{array}{r} 5 \\ +\,4 \\ \hline \end{array}$$



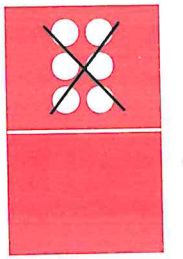
$$\begin{array}{r} 9 \\ -\,5 \\ \hline \end{array}$$



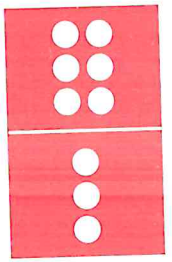
$$\begin{array}{r} 4 \\ +\,5 \\ \hline \end{array}$$



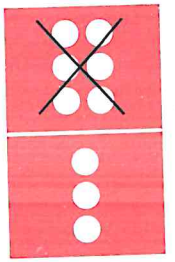
$$\begin{array}{r} 9 \\ -\,4 \\ \hline \end{array}$$



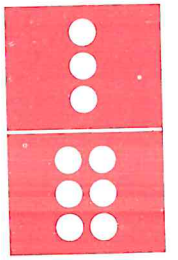
$$\begin{array}{r} 6 \\ -\,6 \\ \hline \end{array}$$



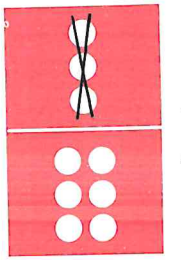
$$\begin{array}{r} 6 \\ +\,3 \\ \hline \end{array}$$



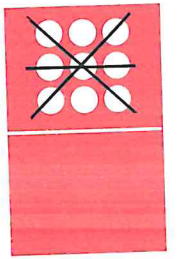
$$\begin{array}{r} 9 \\ -\,6 \\ \hline \end{array}$$



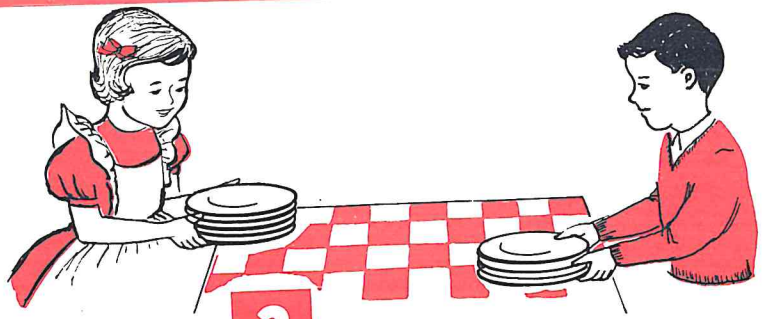
$$\begin{array}{r} 3 \\ +\,6 \\ \hline \end{array}$$



$$\begin{array}{r} 9 \\ -\,3 \\ \hline \end{array}$$



$$\begin{array}{r} 9 \\ -\,9 \\ \hline \end{array}$$



Jane brings ? ⬭ s.

Jack brings ? ⬭ s.

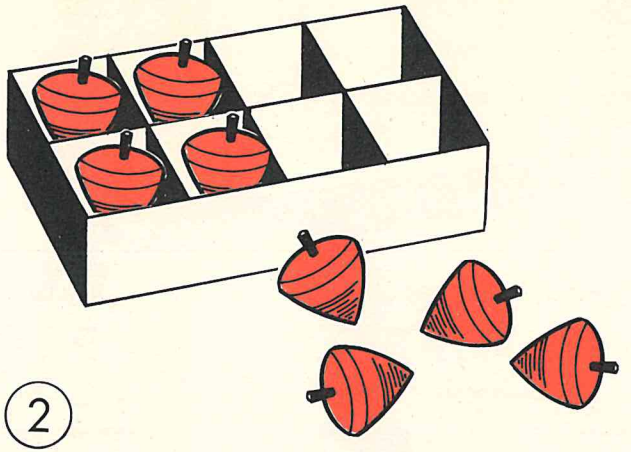
? ⬭ s in all

I made 9 ○ s in all.

? ○ s have ✳.

? ○ s are left.

1



2

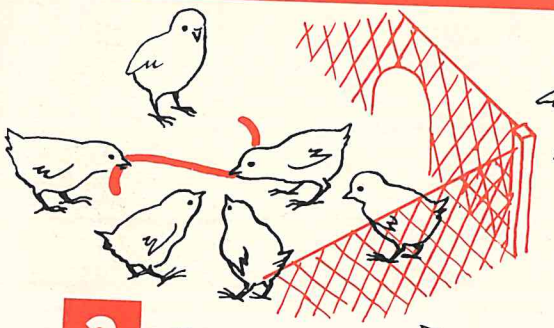
3

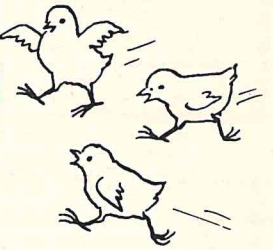
Make problems about the pictures.

? s by the

? s come on s.

? s in all





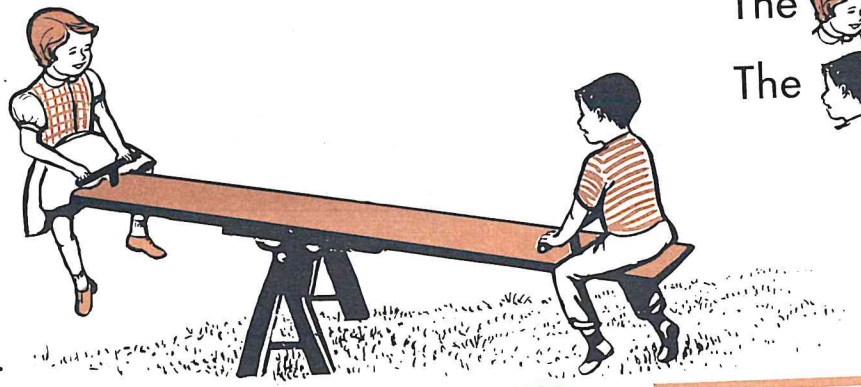
? s in the

? more s come.

? s in all

The is up.

The is down.

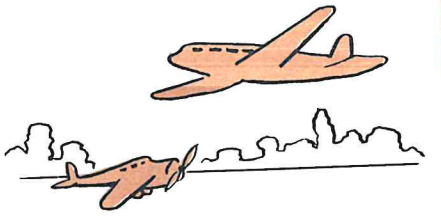


The is higher.

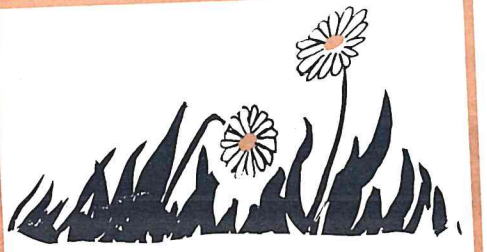
The is lower.

Which is down?

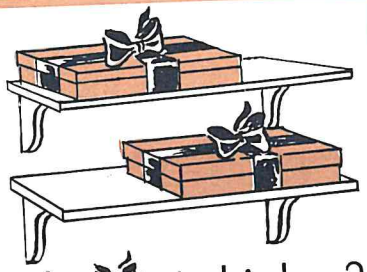
Which is up?



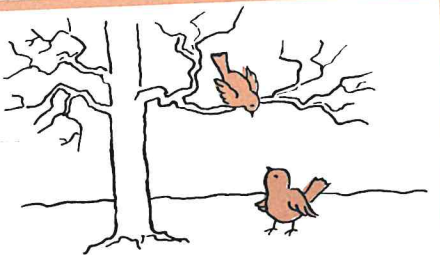
Which is down?



Which is lower?



Which is higher?



Which is up?

16 cents

20 cents

15 cents

12 cents

10 cents

13 cents

? cents

? cents

? cents

? cents

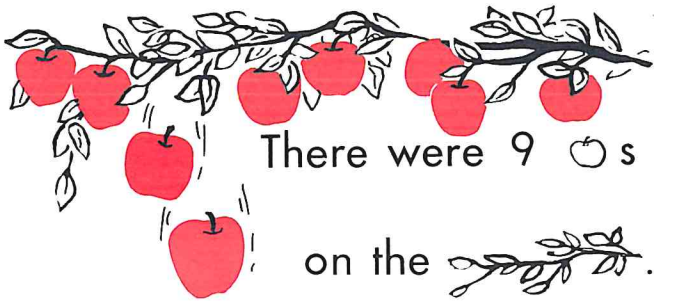
? cents

? cents

Jane has ? s on a .

Jane has ? s in the .

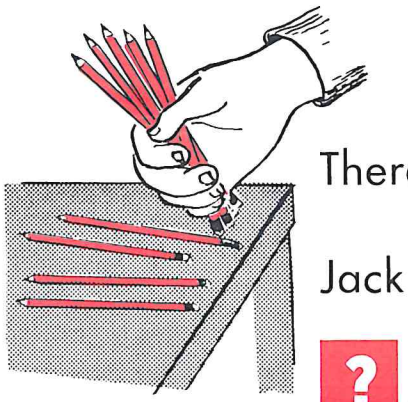
? s in all



There were 9 s on the .

Down go ? s.

? s are left.

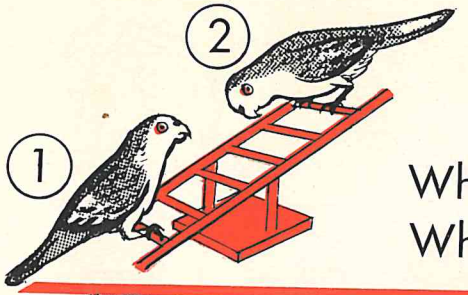


There were 9 s.

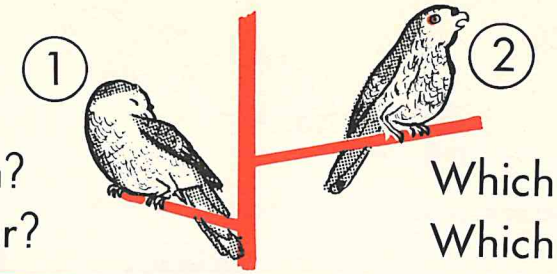
Jack takes ? s.

? s are left.

6	3	9	9	7	2	9	9	4	5	9	9
+3	+6	−3	−6	+2	+7	−2	−7	+5	+4	−4	−5

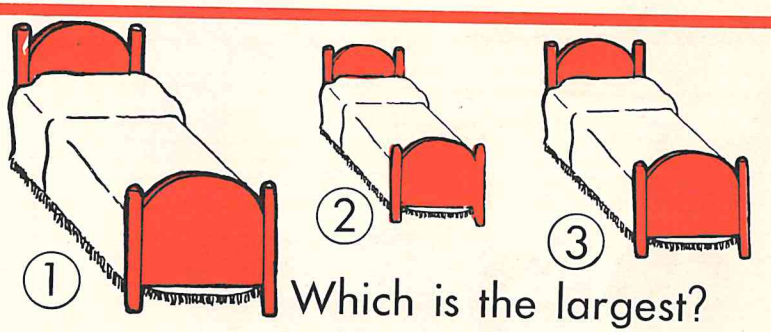


Which is down?
Which is higher?

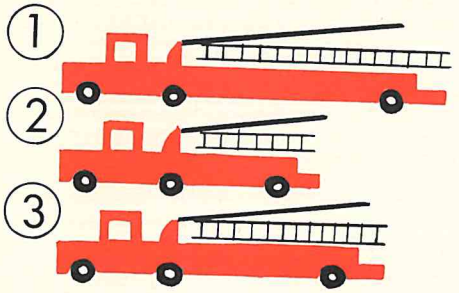


Which is up?
Which is lower?

Which is the tallest?
Which is the shortest?

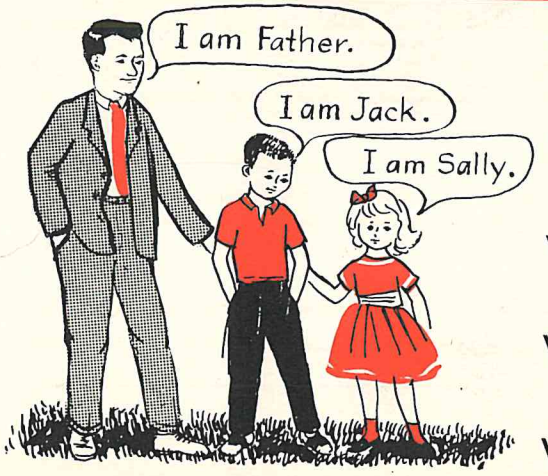


Which is the largest?
Which is the smallest?



Which is the shortest?

Which is the longest?



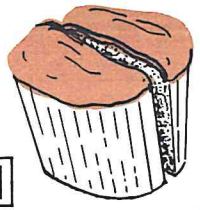
Who is tallest?

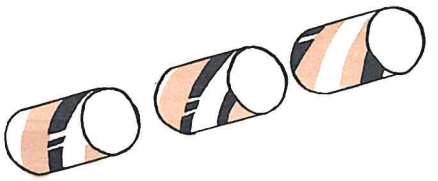
Who is second?

Who is shortest?

Who is largest?

Who is smallest?


1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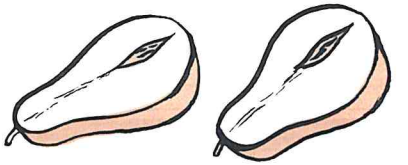
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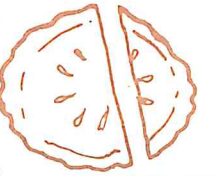

4

Each gets the same.

Each gets ? cents.

A Game

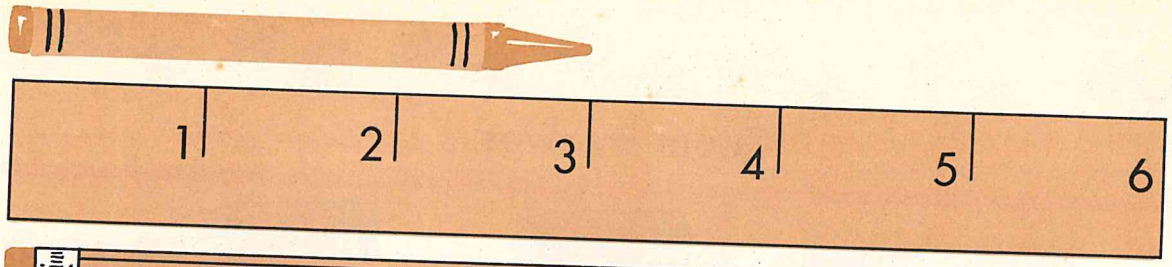
Do what I do.

Find me.

Then do what I do.

I am second.
I am fifth.
I am third.

I am fourth.
I am first.
I am last.

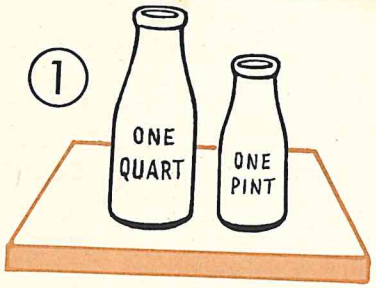
① 

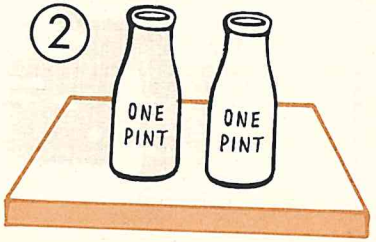
②

How many? s in a

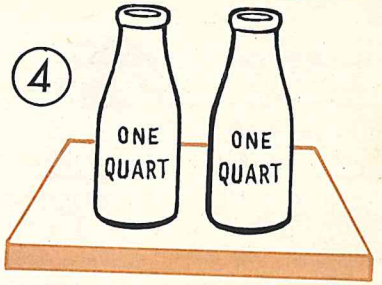
How many? s in a

How many? s in a

① 

② 

③

④ 

1

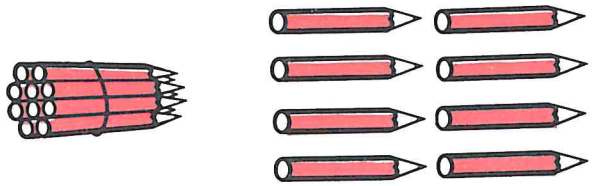
2

3

4

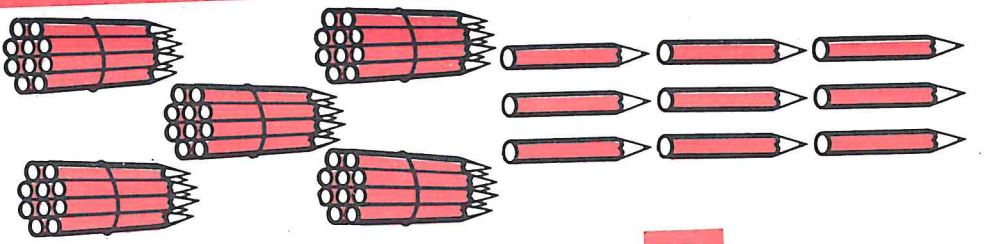
5

Count by twos.



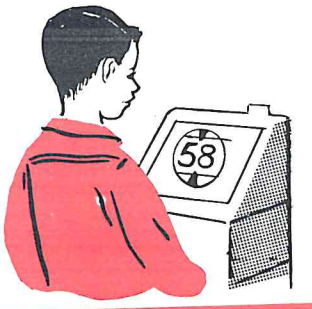
? ten ? ones

? in all



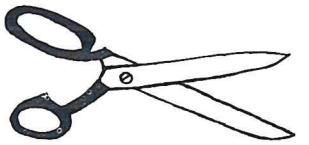
? tens ? ones

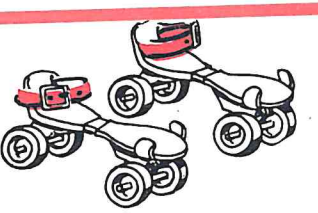
? in all

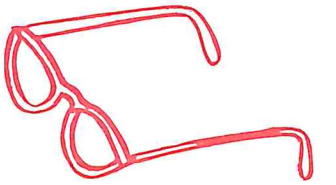


Which is most?

1.	2.	3.
four	six	nine
five	two	seven
three	ten	eight
one	three	five







Merton

Brueckner

Winston Arithmetics

This book is titled: "We Begin Numbers" (First grade; printed in 1959). Over 150 original pages; ordered and delivered by mail in a year after 1959.